SUPPLEMENT TO THE

EDINBURGH

University Calendar

1893-94

EMBRACING THE PERIOD FROM

1st MAY to 1st OCTOBER 1894.

EDINBURGH

Printed and Published for the University

BY JAMES THIN, 55 SOUTH BRIDGE

SOLD BY ALL BOOKSELLERS.

MDCCCXCIV

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EDINBURGH UNIVERSITY MEDICAL CLASS BOOKS.

FIRST YEAR'S COURSE—SUMMER SESSION.

					Cash Price.		
BOTANY.—Prantl and Vines' Botany,	£0	9	0	for	£0	6	9
Bower and Vines' Botany,	0	10	6	,,	0	8	0
Strasburger's Botany,	0	9	0	,,	0	6	9
Fothergill's Botanical Types,	0	2	0	,,	0	1	6
Hooker's Student's Flora,	0	10	6	,,	0	8	0
Macalpine's Histological Botany,	0	2	0	,,	0	1	6
Macnab's Botany, 2 parts, each,	0	1	6	,,	0	1	2
Cook's Structural Botany,	0	1	0	,,	0	0	9
Guide to the Botanic Gardens,		——		,,	0	0	6
NATURAL HISTORY.—Prof. Cossar Ewart's Class Syllabus,				,,	0	2	6
Prof. Cossar Ewart's Syllabus of the Mammalia,				,,	0	10	0
Prof. Cossar Ewart's Dissection of the Frog, Amœba, Slug, Snail, Rabbit, &c.,	0	7	0	,,	0	5	3
Fothergill's Zoological Types,	0	5	0	,,	0	3	9
Claus' Zoology, Pt. I.,	1	1	0	,,	0	16	0
,, Pt. II.,	0	16	0	,,	0	12	0
Thompson's Zoology,	0	12	6	,,	0	9	6
Huxley's Vertebrates,	0	12	0	,,	0	9	0
,, Invertebrates,	0	16	0	,,	0	12	0
Macalister's Vertebrates and Invertebrates, each,	0	1	6	,,	0	1	2
M'Alpine's Zoological Atlas, Vertebrates,	0	10	6	,,	0	6	0
,, ,, Invertebrates,	0	7	6	,,	0	5	0
Parker's Zootomy,	0	8	6	,,	0	6	6
Parker's Biology,	0	10	6	,,	0	8	0
Howe's Atlas of Biology,	0	14	0	,,	0	10	6
Smith and Norwell's Illustrations,	0	12	6	,,	0	9	6

FIRST YEAR'S COURSE—WINTER SESSION.

ANATOMY.—Prof. Turner's Anatomy,	£0	16	0	for	£0	12	0
Gray's Anatomy,	1	16	0	,,	1	7	0
Quain's Anatomy, 2 vols.,	1	16	0	,,	1	7	0
,, *New Ed.*, Vol. I. Pt. I., Embryology,	0	9	0	,,	0	6	9
,, ,, Vol. I. Pt. II., General,	0	12	6	,,	0	9	6
,, ,, Vol. II. Pt. I., Osteology,	0	9	0	,,	0	6	9
,, ,, Vol. II. Pt. II., Myology, &c.,	0	18	0	,,	0	13	6
,, ,, Vol. III. Pt. I., Spinal Cord,	0	12	6	,,	0	9	6
PRACTICAL ANATOMY.—Heath's Anatomy,	0	15	0	,,	0	11	3
Ellis' Demonstrations,	0	12	6	,,	0	9	6
Holden's Osteology,	0	16	0	,,	0	12	0
Holden's Manual of Dissections,	1	0	0	,,	0	15	0
Cunningham's Dissector, Upper and Lower Limb,	0	9	0	,,	0	6	9
Owen's Anatomy for Senior Students,	0	12	6	,,	0	9	6
Smith's Atlas of Anatomy,	1	5	0	,,	0	19	0
CHEMISTRY.—Prof. Crum Brown's Chemistry,	0	1	0	,,	0	0	9
Prof. Crum Brown's Reactions of Salts,		——		,,	0	1	0
Dobbin and Walker's Chemical Theory,	0	2	6	,,	0	2	0
Dobbin's Arithmetical Exercises in Chemistry,		——		,,	0	1	0
Bloxam's Chemistry,	0	18	0	,,	0	13	6
Wurtz's Elements of Modern Chemistry,	0	10	6	,,	0	8	0
Roscoe's Chemistry,	0	4	6	,,	0	3	5
Remsen's Inorganic Chemistry,	0	6	6	,,	0	5	0
,, Organic Chemistry,	0	6	6	,,	0	5	0
Drinkwater's Chemical Tables,		——		,,	0	1	0
Milne Murray's Chemical Notes and Equations,	0	2	0	,,	0	1	6

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SUPPLEMENT TO THE EDINBURGH UNIVERSITY CALENDAR

1893-94.

EDINBURGH UNIVERSITY MEDICAL CLASS BOOKS.

		Cash Price.
PHYSIOLOGY AND HISTOLOGY.		
Landois' Physiology,	£2 2 0 for	£1 12 0
Foster's Physiology, 4 vols.,	1 19 0 ,,	1 9 8
Kirkes' Physiology,	0 14 0 ,,	0 10 6
Power's Physiology,	0 7 6 ,,	0 5 8
Klein's Histology,	0 7 6 ,,	0 5 8
Stirling's Practical Physiology,	0 8 6 ,,	0 6 6
SURGERY.		
Holme's Surgery, 1 vol.,	1 10 0 ,,	1 2 6
,, System of Surgery, 3 vols.,	4 4 0 ,,	1 5 0
Erichsen's Surgery, 2 vols.,	2 8 0 ,,	1 16 0
Druitt's Surgeon's Vade Mecum,	0 16 0 ,,	0 12 0
Treves' Surgical Operations,	0 7 6 ,,	0 5 8
,, Surgery, 3 vols.,	1 2 6 ,,	0 17 0
,, Operative Surgery, 2 vols.,	2 2 0 ,,	1 12 0
Chiene's Lectures,	0 2 6 ,,	0 2 0
,, Surgical Anatomy,	0 12 6 ,,	0 9 6
Heath's Dictionary of Surgery, 2 vols.,	1 12 0 ,,	1 4 0
Bell's Surgical Operations,	0 6 0 ,,	0 4 6
Walsham's Surgery,	0 12 0 ,,	0 9 0
MATERIA MEDICA.		
Garrod's Materia Medica,	0 12 6 ,,	0 9 6
Hale White's Materia Medica,	0 7 6 ,,	0 5 8
Wood's ,, ,,	0 18 0 ,,	0 13 6
Martindale's Extra Pharmacopœia,	0 7 6 ,,	0 5 8
Mitchell Bruce's Materia Medica and Therapeutics,	0 7 6 ,,	0 5 8
Lauder Brunton's Pharmacology and Therapeutics,	1 1 0 ,,	0 16 0
Squire's Companion to the Pharmacopœia,	0 10 6 ,,	0 8 0
PATHOLOGY.		
Payne's Pathology,	0 12 6 ,,	0 9 6
Green's Pathology,	0 14 0 ,,	0 10 6
Ziegler's Pathology, 3 vols.,	1 17 6 ,,	1 8 6
Hamilton's Pathology,	1 5 0 ,,	0 19 0
Coats' Pathology,	1 11 6 ,,	1 4 0
Woodhead's Pathology,	1 5 0 ,,	0 19 0
MIDWIFERY AND DISEASES OF WOMEN.		
Playfair's Midwifery, 2 vols.,	1 8 0 ,,	1 1 0
Leishman's Midwifery, 2 vols.,	1 4 0 ,,	0 18 0
Meadows' Midwifery,	0 12 6 ,,	0 9 6
Hart and Barbour's Gynecology,	1 5 0 ,,	0 19 0
Croom's Operations,	0 6 0 ,,	0 4 6
Thorburn's Diseases of Women,	1 1 0 ,,	0 16 0
PRACTICE OF MEDICINE.		
Bristowe's Medicine,	1 1 0 ,,	0 16 0
Fagge's Practice of Medicine, 2 vols.,	2 0 0 ,,	1 10 0
Osler's Practice of Medicine,	1 4 0 ,,	0 18 0
Quain's Dictionary of Medicine, 2 vols.,	1 14 0 ,,	1 5 6
Roberts' Medicine,	1 1 0 ,,	0 16 0
Charteris' Medicine,	0 9 0 ,,	0 6 9
Carter's Medicine,	0 9 0 ,,	0 6 9
Taylor's Practice of Medicine,	0 15 0 ,,	0 11 3
MEDICAL JURISPRUDENCE.		
Taylor's Manual of Jurisprudence,	0 14 0 ,,	0 10 6
,, Principles ,, 2 vols.,	1 11 6 ,,	1 4 0
Guy's Forensic Medicine,	0 12 6 ,,	0 9 6
Husband's Medical Jurisprudence,	0 10 6 ,,	0 8 0
Abercrombie's ,,	0 7 6 ,,	0 5 8

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SUPPLEMENT TO THE

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1st MAY to 1st OCTOBER 1894.

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Explanatory Preface.

THE Senatus Academicus of the University of Edinburgh have resolved that in future the University Calendar, instead of embracing the year from 1st May to 1st May, as heretofore, shall run from 1st October to 1st October, so as to embrace an unbroken Academic year, and shall be published annually in May or early in June. The publication of this Supplement for the period from 1st May to 1st October 1894, has therefore been rendered necessary. It contains the Programmes of the University Classes, the Synopses of the Courses of Lectures, the Combinations of Half-Courses which qualify as Whole Courses, the Outlines of the Subjects of Examination for Degrees in Arts, Law, Medicine, and Science, Regulations for admitting Women who have received the requisite instruction in Chemistry, Botany, and Zoology to Examination in these subjects for Graduation in Arts[1] and in Science,[2] the dates of the Graduation Examinations, and other necessary information from 1st May to 1st October 1894.

Since the Calendar was published, the new Ordinances regulating Graduation in Science in the Departments of Engineering[3] and of Agriculture[4] have been approved by Her Majesty in Council, and came into operation on 1st October 1893.

New Ordinances regulating Graduation in Music[5] and Graduation in Science in the Department of Public Health[6] have been laid before Parliament, and will probably come into force on 1st October 1894.

[1] See Regulations, page 26.
[2] See Regulations, page 80.
[3] See page 83.
[4] See page 87.
[5] See Appendix, page 93.
[6] See Appendix, page 96.

There have also been issued a Draft Ordinance regulating Graduation in Law, and a Supplementary Draft Ordinance providing that attendance on a Class of Mathematics or Natural Philosophy shall not qualify for Graduation unless the Candidate before entering the Class has passed—in addition to the Examination in Mathematics on the Lower Standard required of all Students—a higher Examination in Euclid, Algebra, and Trigonometry. These new rules may come into operation on 1st October next.

The University Court, on the recommendation of the Senatus, has resolved to institute Lectureships in (1) French Language and Literature and Romance Philology, and (2) in German Language and Literature and Teutonic Philology; and Lectures in these subjects qualifying for the Degree of Master of Arts will be delivered in this University during the Winter Session of 1893-94.

The Calendar for 1893-94 and this Supplement are published by James Thin, Edinburgh, and may be had through any Bookseller. Price of Calendar, 3s; by post, 3s. 6d. Price of this Supplement, 1s.; by post, 1s. 1½d.

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The Calendar.

1894—MAY, 31 DAYS.

1	Tu	SUMMER SESSION OPENS. *Clinical Medicine Exams. begin.*
2	W	
3	Th	*Clinical Surgery Exams. begin.*
4	Fr	
5	Sa	
6	S	
7	M	
8	Tu	
9	W	
10	Th	
11	Fr	
12	Sa	LAW CLASSES OPEN. Court of Session sits.
13	S	
14	M	*Meeting of University Court at* 4 P.M.
15	Tu	Whitsunday Term.
16	W	
17	Th	
18	Fr	*Fellowships, Scholarships, Bursaries, paid by Factor.*
19	Sa	
20	S	
21	M	
22	Tu	
23	W	Queen Victoria born, 1819. HOLIDAY. General Assembly meets.
24	Th	
25	Fr	*Meeting of Senatus Academicus at* 3 P.M.
26	Sa	
27	S	
28	M	
29	Tu	
30	W	
31	Th	

1894—JUNE, 30 DAYS.

1	Fr	
2	Sa	
3	S	
4	M	
5	Tu	*University Local Examinations begin.*
6	W	
7	Th	
8	Fr	
9	Sa	
10	S	
11	M	
12	Tu	
13	W	
14	Th	
15	Fr	
16	Sa	
17	S	*Meeting of University Court at* 4 P.M. *Final Prof. Written Exam. in Med. begins.* (See Time-Table, pages 68, 70.)
18	M	
19	Tu	
20	W	*Accession of the Queen,* 1837. *Final Prof. Oral Exams. begin.*
21	Th	
22	Fr	
23	Sa	
24	S	Midsummer Day.
25	M	*Last day for Candidates for Second B.Sc. Examinations in Public Health intimate their names, show Certificates, and pay Fees.*
26	Tu	
27	W	
28	Th	*Queen's Coronation,* 1838.
29	Fr	*Meeting of Senatus Academicus at* 3 P.M.
30	Sa	

1894—JULY, 31 DAYS.

1	S	
2	M	*Second B.Sc. Examinations in Public Health begin.* (See Time-Table, page 92.)
3	Tu	
4	W	
5	Th	
6	Fr	
7	Sa	
8	S	*Last day for Names of Candidates for Second Professional Examination to be given in, Certificates shown, and Fees paid.*
9	M	
10	Tu	
11	W	
12	Th	
13	Fr	*Last day for Names of Candidates for Examinations for Degrees in Law, Science, and Arts, and for First Professional Examination in Medicine to be given in, Certificates shown, and Fees paid.*
14	Sa	*Last day for payment of Stamp Duty for M.D. Diplomas.*
15	S	
16	M	*Meeting of University Court at* 4 P.M.
17	Tu	
18	W	*Second Professional Examinations in Medicine begin.* (See Time-Table, pages 68, 70.)
19	Th	*Oral Exams. begin.*
20	Fr	SUMMER SESSION ENDS.
21	Sa	*Examinations for Degrees in Arts, Law, Science, and First Prof. in Medicine begin.* (See Time-Tables, pages 27, 41, 67, 70, 92.)
22	S	
23	M	
24	Tu	
25	W	*Oral Exams. begin.*
26	Th	
27	Fr	*Meeting of Senatus Academicus at* 3 P.M. (1) *Candidates for Degrees to be reported and approved;* (2) *Class Lists and Returns for Court, &c., to be given in.*
28	Sa	
29	S	
30	M	
31	Tu	

1894.—AUGUST, 31 DAYS.

1	W	GRADUATION CEREMONIAL IN LAW, MEDICINE, AND SCIENCE AT 10 A.M. *Library open from* 10 A.M *to* 1 P.M. *till Friday, 1st September. Closed on Saturdays. Reading Room, New Buildings, closed during same period. University Offices open from* 10 *to* 1 *till 1st Oct. Closed on Saturdays.*
2	Th	
3	Fr	
4	Sa	
5	S	
6	M	
7	Tu	
8	W	
9	Th	
10	Fr	
11	Sa	
12	S	
13	M	
14	Tu	
15	W	
16	Th	
17	Fr	
18	Sa	
19	S	
20	M	
21	Tu	
22	W	
23	Th	
24	Fr	
25	Sa	
26	S	
27	M	
28	Tu	
29	W	
30	Th	
31	Fr	

1894—SEPTEMBER, 30 DAYS.

1	Sa	*Reading Room in University New Buildings open from* 10 *to* 1 *till* 1*st October. Closed on Saturdays.*
2	S	
3	M	
4	Tu	
5	W	
6	Th	
7	Fr	
8	Sa	
9	S	
10	M	
11	Tu	
12	W	
13	Th	
14	Fr	
15	Sa	
16	S	
17	M	Edinburgh Holiday.
18	Tu	
19	W	
20	Th	
21	Fr	*Last day for Names of Candidates for Preliminary Examinations for Degrees in Arts, Science, and Medicine, to be given in, and Fees paid. Last day for entering for University Bursaries in the Faculties of Arts and Science.*
22	Sa	
23	S	
24	M	
25	Tu	
26	W	
27	Th	
28	Fr	
29	Sa	*Preliminary Examinations for Degrees in Arts and Science, and Bursary Examinations may begin.* Time-Tables will be given in CALENDAR for 1894-5, and in the Regulations issued separately.
30	S	

I.

FACULTY OF ARTS

(INCLUDING THE DEPARTMENTS OF LANGUAGE AND LITERATURE, MENTAL PHILOSOPHY, SCIENCE, AND HISTORY AND LAW.)

SUMMER 1894.

Dean.

PROFESSOR CHRYSTAL, LL.D.,
5 *Belgrave Crescent, Edinburgh.*

Faculty of Arts.

Students who do not intend to graduate in Arts may attend any of the Classes in the Faculty on payment of the Matriculation and Class Fees only, and without having passed any Preliminary Examination. Those who intend to graduate must pass the Preliminary Examination before attendance on any Class will count for Graduation. The Classes in the Faculty of Arts are now open to Women, except in the case of a few classes in which provision has not yet been made for teaching Women in the University. See Regulation regarding the attendance by Women at Extra-Academical Lectures in Edinburgh qualifying for Graduation in the University, page 26. Full information regarding attendance on Classes, Examinations, Graduation, &c., is given in the Calendar.

Programme of Classes.

SUMMER SESSION, 1894.

The Classes will be opened as follows, and will be closed on Friday, 20th July.

Classes.	Days and Hours.	Profs. and Lecturers.	Class Fees.
			£ s.
Senior Latin (Graduation Half-Course)	1 May, 9 o'cl.	F. R. Jamieson, M.A.	2 2
Senior Greek (Graduation Half-Course)...	1 May, 10 ,,	A. D. Thomson, M.A.	2 2
English Literature from the time of Dryden, 25 Lectures, *Tues., Thurs., & Fri.*[1] ...	1 May, 12 ,,	G. Gregory Smith, M.A.	2 2
Senior Mathematics (First Graduation Half-Course).....	1 May, 11 ,,	Chas. Tweedie, M.A., B.Sc.	2 2
Senior Mathematics (Second Graduation Half-Course).....	1 May, 12 ,,		2 2
Ancient Philosophy (Honours Half-Course, *Mon., Wed., & Fri.*).....	2 May, 11 ,,	R. P. Hardie, M.A.	2 2
Psychology (Honours Half-Course, *Mon., Wed., Fri.*).....	2 May, 12 noon	C. M. Douglas, M.A., D.Sc.	2 2
Physics (*mainly for Students of Medicine*)	1 May, 12 ,,	Prof. Tait.	3 3

[1] On Friday, or another day by arrangement, during part of the Session.

Classes.	Days and Hours.	Profs. and Lecturers.	Class Fees. £	s.
Physical Laboratory.....	1 May, 10 o'cl.	Prof. Tait and Assistant.	2	2
Applied Mathematics (Electricity and Magnetism)	1 May, 10 ,,	C. G. Knott. D.Sc.	2	2
Advanced Experimental Physics.....	1 May, 11 ,,	W. Peddie, D.Sc.	2	2
Sanskrit.....	1 May, 3 o'cl.	Prof. Eggeling,..	3	3
Geology (*Mon., Wed., Fri.*)..... Field Demonstrations *on Saturdays*	2 May, 4 ,,	Prof. Geikie,.....	3	3
Elementary Hebrew[1] ...	1 May, 10 ,,	Prof. Dobie and Assistant.	2	2
Elementary Arabic.....	1 May, 11 ,,			
Constitutional Law and History[2].....	14 May, 5 ,,	Professor Kirkpatrick.	3	3
Practical Chemistry	1 May, 2 ,,	Professor Crum Brown.	3	3
Chemistry (Organic) Advanced Class (*Tues., Wed., and Thurs.*)	1 May, 1 ,,		2	2
Zoology (Elementary)[3]...	1 May, 1 ,,	Prof. Ewart	4	4
Do. (Advanced)	1 May, 3 ,,		2	2
Practical Zoology (Elementary)	1 May,[7] ,,		2	2[5]
Practical Zoology (Advanced).....	1 May,[7] ,,		3	3[5]
Botany [4].....	1 May, 8 ,,	Prof. Balfour ...	4	4[6]
Practical Botany..... Field Demonstrations on *Saturdays*	1 May, 9 ,,		2	2

[1] To prepare Students for entering the Junior Class in Winter Session.
[2] Qualifies for Graduation in Law and as a Half-Course for Graduation in Arts.
[3] With Practical Zoology a full Course, but the whole Course must extend over at least 75 separate days.
[4] With Practical Botany a full Course, but the whole Course must extend over 75 separate days.
[5] Besides charge of 10s. for Laboratory Expenses.
[6] Besides Garden Fee of 5s.
[7] At hours to be arranged.

TUTORIAL CLASSES.

These Classes commence on Tuesday, 1st May, and close on Friday, 20th July.

Classes.	Hours.	Professors' Assistants.	Class Fees.
Junior Humanity (Preliminary Class).....	1 May, 12	Francis R. Jamieson, M.A., Lecturer on Latin Literature.	£2 2
Third Humanity (Advanced Class).....	1 May, 10		
Junior Greek (Preliminary Class).....	1 May, 11	A. Douglas Thomson, M.A., Lecturer on Greek Literature.	2 2
Third Greek (Advanced Class).....	1 May, 9		
Advanced Mathematics	1 May, 10	Chas. Tweedie, M.A., B.Sc., Lecturer on Pure Mathematics.	2 2
Natural Philosophy (Advanced Honours).....	1 May, 9	William Peddie, D.Sc., Lecturer on Natural Philosophy.	2 2

MATRICULATION FEES.

For the Summer Session only, 1st May to 30th September inclusive £0 10 0

(Candidates entering for Graduation Examinations or for Graduation, if not already matriculated for the whole year, pay £1.)

Faculty of Arts.[1]

COURSES OF LECTURES.

I.—DEPARTMENT OF LANGUAGE AND LITERATURE.

I. HUMANITY—(LATIN).

Senior Class.

FRANCIS R. JAMIESON, M.A., *Lecturer.*

This Class qualifies as a half-course for Graduation.

The work of the Class consists of—

1. The reading of the Latin authors prescribed for the Degree Examination in October 1894 and April 1895.

2. Lectures on Roman Literature, chiefly bearing on the authors read.

3. Lectures on Roman History, treating of the period prescribed for the Degree Examination.

4. Exercises in Latin Prose Composition.

5. Written Examinations on the work done in the Class.

6. Translation of passages from Latin into English, and from English into Latin "at sight."

The full Course may be completed either by attendance during another Summer Session or by attendance during half of a Winter Session.

Tutorial Classes.

The Junior Class is intended to meet the wants of Students who are preparing for the Preliminary Examination to be held in October next, and the work to be done will be selected with that end in view.

[1] The annual amount payable for Matriculation, Class Fees, &c., of the regular Course in Arts may be estimated at about £10, 10s.

An Advanced Class in Latin will be formed for the reading of the more difficult authors. The books to be taken up will be chosen to suit those preparing for Classical Honours and for University Scholarship Examinations.

II. GREEK.

Senior Class.

A. DOUGLAS THOMSON, M.A., *Lecturer.*

This Class qualifies as a half-course for Graduation.

The work of the Class consists of—

1. The reading of the Greek authors prescribed for the Degree Examination in October 1894 and April 1895.
2. Lectures on Greek History or Literature.
3. Greek Prose Composition, and Translation of Unseen Passages.
4. Written Examinations.

The full Course may be completed either by attendance during another Summer Session or by attendance during half of a Winter Session.

Tutorial Classes.

The Junior Class is intended to meet the wants of Students who are preparing for the Preliminary Examination to be held in October next, and the work to be done will be selected with that end in view.

An Advanced Class in Greek will be formed for the reading of the more difficult authors. The books to be taken up will be chosen to suit those preparing for Classical Honours and for University Scholarship Examinations.

FINE ART.

PROFESSOR BALDWIN BROWN.

A Course of Lectures on Classical Archæology, qualifying as an Alternative Subject for Honours in Classics, will be delivered by Professor Baldwin Brown in the Winter Session 1894-5. *For further information, apply to the Professor.*

III. RHETORIC AND ENGLISH LITERATURE.

G. GREGORY SMITH, M.A., *Lecturer.*

A course of Twenty-Five Lectures on English Literature from the time of Dryden, being an historical and critical exposition of the literary principles of the Eighteenth Century.

Books recommended for reference.—Leslie Stephen's English Thought in the Eighteenth Century, Vol. II. ch. xii.; Gosse's Eighteenth Century Literature; Ward's English Poets, Vol. III.

IV. SANSKRIT AND COMPARATIVE PHILOLOGY.

PROFESSOR EGGELING.

SANSKRIT LANGUAGE AND LITERATURE.

Same as in Winter Session.

V. HEBREW AND ORIENTAL LANGUAGES.

PROFESSOR DOBIE.

HEBREW.

HEBREW AND SEMITIC LANGUAGES.

Preparatory Classes in Elementary Hebrew and Elementary Arabic will meet during the SUMMER *Session.*

II.—DEPARTMENT OF MENTAL PHILOSOPHY.

I. LOGIC AND METAPHYSICS.

R. P. HARDIE, M.A., *Lecturer.*

HONOURS COURSE IN ANCIENT PHILOSOPHY.

This Class, which will constitute a half-course, qualifying for Honours in Mental Philosophy and in Classics, will meet at eleven o'clock on Mondays, Wednesdays, and Fridays, beginning on May 2.

The Special period for Summer Session 1894 will be announced later.

II. MORAL PHILOSOPHY.

C. M. DOUGLAS, M.A., D.Sc., *Lecturer.*

HONOURS COURSE IN PSYCHOLOGY.

This Class, which will constitute a half-course qualifying for Honours in Mental Philosophy, will meet at twelve o'clock on Mondays, Wednesdays, and Fridays, beginning on 2nd May.

Attention will mainly be directed to such principles and problems as are of ethical and philosophical interest; results of experimental research will be specially kept in view.

No text-book will be followed, but frequent references will be given to James' "Principles of Psychology," Baldwin's "Hand-book of Psychology," Sully's "Human Mind," and other books.

III.—DEPARTMENT OF SCIENCE.

I. MATHEMATICS.

CHARLES TWEEDIE, M.A., B.Sc., *Lecturer.*

1. *Lower Senior.*—11 to 12.

This Class qualifies for Graduation in Arts and Science as a[1] First Half-Course in Mathematics. The work consists of Algebra and Plane Trigonometry, corresponding to the First Half of the Winter Graduation Course.

2. *Higher Senior*—12 to 1.

This Class qualifies for Graduation as a[1] Second Half-Course if taken *after any* First Half-Course in Mathematics.

Suitable also for Students reading for the more advanced part of the Winter Graduation Course.

[1] Attendance on the first half of the Winter Graduation Course up to Christmas can now be made to qualify as a First Half-Course in Mathematics, and attendance on the second half of the Winter Course from Christmas to the end of the Session as a Second Half-Course. *Any* First Half-Course, along with *any* Second Half-Course, taken subsequently, qualifies as a full Course of Instruction for Graduation.

The work consists of Algebra and the elementary treatment of the Conic Sections, Geometrical and Analytical.

In each Class weekly exercises are prescribed, and two written examinations are held.

Tutorial Classes.

The above Classes also serve for Tutorial Classes.

The Junior Class of Mathematics will not be continued in the Summer unless a strong demand for it be made.

The Advanced Summer Class will meet from 10 to 11. A.M. The work will consist of Determinants and the Theory of Equations (which are not treated in the Winter Advanced Courses), Differential and Integral Calculus, and Analytical Geometry.

Weekly exercises are prescribed on the work done in the class.

II. NATURAL PHILOSOPHY.

PROFESSOR TAIT.

SUMMER CLASS OF PHYSICS, SPECIALLY FOR MEDICAL STUDENTS.

For particulars, see under Faculty of Medicine.

PHYSICAL LABORATORY.

This has been established with the view of affording Students a practical knowledge of the construction of, and manner of using physical apparatus, and with the mode of conducting experimental inquiries. The Laboratory is open for five or six hours daily during the Winter and Summer Sessions, under the personal superintendence of the Professor and his Class-Assistant. Fee, £6, 6s. for the Winter Session. It is hoped that, with the valuable collection of apparatus in the Museum, results of real use to science may be obtained.

A practical class, for the instruction of beginners in the elementary processes of measuring Time, Mass, Length, Angle, Force, &c., will be formed in the Winter and also in the Summer Sessions. The course, in each case, will extend over about three

months. The fee is £2, 2s. The Professor reserves to himself the right of admitting *free*, to general Laboratory work, such matriculated students of the practical class as may show special diligence and aptitude.

Applied Mathematics

(*Electricity and Magnetism*).

C. G. KNOTT, D.Sc., *Lecturer.*

A Course of Lectures on the Theory of Electricity and Magnetism will be given during the Summer Session of 1894.

Fee, £2, 2s.

The following, amongst other subjects, will be treated :— Electric Field, Potential, Induction, and Distribution of Charge ; Flow of Electricity in Networks, Sheets, and other conductors ; Thermal Relations, reversible and irreversible ; Magnetic and Electromagnetic Field and Potential ; Induced Magnetism ; Induced Currents and Electrical Oscillations.

A knowledge of Dynamics will be assumed, and the ordinary processes of the Differential Calculus will be used. Professor Chrystal's Articles on *Electricity* and *Magnetism* ("Ency. Brit.") are recommended as Text-Books.

Advanced Experimental Physics.

W. PEDDIE, D.Sc., *Lecturer.*

In this Class such subjects as are treated mathematically in the Winter Advanced Honours Course of Natural Philosophy will be treated fully from the experimental point of view. The Course is also intended to suit the requirements of undergraduates in Experimental Science. It is proposed to treat experimentally the advanced parts of Light, Electricity, Magnetism, &c. In connection with the Undulatory Theory, the following subjects will be discussed :—Reflection, refraction, and interference of ordinary and of polarised light ; conical refraction ; diffraction ; electro- and magneto-optics ; and the various optical phenomena of crystalline substances. In

Electricity and Magnetism such subjects as the discharge of electricity through gases; the screening effect of conducting sheets, and other phenomena associated with rapidly alternating electromotive forces; electromagnetic undulations; magnetic hysteresis, &c., will be treated. The experimental investigation of reciprocally related physical phenomena will be specially illustrated from all branches of physics; and, on the dynamical side, special attention will be devoted to the realisation of dynamical systems illustrative of physical phenomena.

Tutorial Class.

NATURAL PHILOSOPHY (Advanced Honours).

The work in this Class will correspond as closely as possible to the work of the Winter Advanced Honours Course—Undulatory Theory, &c., being fully treated. The Class is intended for Students preparing for the above Winter Course, or for the Advanced Honours Examination.

IV. PRACTICAL CHEMISTRY.

PROFESSOR CRUM BROWN.

This Course is the same as that provided for Students of Medicine and Science. It embraces Fifty Meetings for Practical Work in the Practical Chemistry Class-Room.

V. ZOOLOGY.

PROFESSOR EWART.

The Course is the same as that provided for Students of Medicine and of Science. It embraces Fifty Lectures and Fifty hours for Practical work, the whole Course extending over seventy-five separate days.

VI. BOTANY.

PROFESSOR BAYLEY BALFOUR.

The Course is the same as that for Students of Medicine and of Science. It embraces Fifty Lectures and Fifty hours for Practical work.

VII. GEOLOGY, INCLUDING MINERALOGY.

PROFESSOR GEIKIE.

For Synopsis of this Course, see under Science.

IV.—DEPARTMENT OF HISTORY AND LAW.

HISTORY.

PROFESSOR KIRKPATRICK.

The Summer Course on Constitutional Law and History qualifies as a half-course for Graduation in Arts (and may be combined with a half-course on the History of Roman Law, or with a half-course on Public Law). For details, see Faculty of Law.

An Honours Course of fifty lectures on "Wycliffe: his Times and his Influence," will be delivered by the Professor of History next Winter Session, qualifying for graduation with honours in History. (Class fee, three guineas.) The Professor's private assistant, Mr David P. Heatley, will give an Advanced Course of twenty lectures on "The King and the Crown; or Personal and Official Kingship in English History," also during the Winter Session, which may be attended without fee by all the students in the History Classes.

Next Winter Session the Professor of History proposes to deliver, as usual, a full Ordinary Course of a hundred lectures, qualifying for Graduation in Arts.

The Professor's Class Library is open to all the students in these Classes without charge. See also page 26.

Fuller details as to these courses, and also as to the provisional Honours Curriculum in History, may be obtained at the Matriculation Office.

III. CONSTITUTIONAL LAW AND HISTORY.

PROFESSOR KIRKPATRICK.

This Class meets daily in the Summer Session, except Saturdays, at five o'clock.

The Course, extending to forty-five meetings of the Class, qualifies as a half-course for Graduation in Arts.

The Professor's Class Library, superintended by his Assistant, is open to Members of the Class (both ladies and gentlemen), on Mondays and Thursdays from 10.30 to 1.30.

For further details, see under Faculty of Law.

Regulation regarding the Instruction and Examination of Women in Chemistry, Botany, and Zoology for Graduation in Arts.

Any Woman who has received the requisite instruction in Chemistry, Botany, and Zoology in any Scottish University, or in the Edinburgh School of Medicine for Women, Surgeon Square, or in the Medical College for Women, Chambers Street, Edinburgh, will (subject to the provisions of Ordinance No. 18, General No. 9, Regulations for the Graduation of Women,[1] &c.) be admitted to Examination in these subjects for Graduation in Arts.

Any Woman, not a Matriculated Student of the University, availing herself of the permission to attend the Courses on Chemistry, Botany, or Zoology, at the above-named Schools of Medicine in Edinburgh, with a view to Graduation in Arts, must, at the commencement of each year of such attendance, enrol her name in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by Students of the University, and having, in respect of such payment, a right to the use of the Library of the University.

Full information regarding attendance on Classes and Graduation in Arts is given in the University Calendar.

[1] See Ordinance Appendix to Calendar, 1892-93, page 51.

PASS EXAMINATIONS FOR MASTER OF ARTS.
TIME-TABLES FOR SUMMER 1894.

		M.A. Examinations.
1894.		
July 21	Sat.	Practical Chemistry (and following days at hours to be announced)
,, 23	Mon.	Roman Law, 9 Constitutional Law and History, 2 Chemistry, 10 Botany, 1
,, 24	Tu.	Natural History, 10 Geology, 1 Constitutional Law and History, 2
,, 25	Wed.	Public Law, 9 Oral Examinations in Science Subjects begin
,, 27	Fr.	Oral Examinations in Law and History Subjects begin, 9

NOTE.—In the Examinations for the Degree of M.A. in Roman Law, Public Law, and Constitutional Law and History, separate papers will be set for the ordinary Degree of M.A., but candidates who intend to proceed later to the Degree of LL.B. must pass on LL.B. standard.

OUTLINE OF SUBJECTS OF EXAMINATION FOR THE ORDINARY DEGREE IN JULY 1894.

DEPARTMENT OF SCIENCE.

Chemistry.

Classification of Elements. General Laws of Chemical Combination and Action, as illustrated in the simpler compounds of the more commonly occurring elements.

Symbolic Notation.

Preparation and Properties of the Non-Metallic Elements and their chief Compounds. Atomic Theory. Combining Volumes of Gases. Relation of Volume of Gas to Temperature and Pressure.

Properties of Acids, Bases, and Salts—Electrolysis.

Oxygen, Ozone, Oxidation, and Reduction.

Hydrogen, Water, Peroxide of Hydrogen, Chlorine, Hydrochloric Acid, Hypochlorites, Chlorates, Bromine, Hydrobromic Acid, Iodine, Hydriodic Acid, Iodates, Fluorine, Hydrofluoric Acid. Sulphur, Sulphuretted Hydrogen, Oxides of Sulphur, Sulphites, Sulphates, Thiosulphates, Nitrogen, The Atmosphere, Oxides of Nitrogen, Nitrates,

Nitrites, Ammonia, Ammonium Salts, Phosphorus, Oxides of Phosphorus, Chlorides and Oxychloride of Phosphorus, Phosphates, Phosphites, Hypophosphites, Boron, Boracic Acid, Borates, Silicon, Silica, Silicates, Chloride of Silicon, Fluoride of Silicon, Hydrofluosilicic Acid.

Carbon, Oxides of Carbon, Carbonates, Phosgene. Classification of Carbon Compounds. Marsh Gas and its Homologues. Chloroform. Methylic and Ethylic Alcohols and Ethers. Methylamine, Dimethylamine, Trimethylamine, Tetramethylammonium. Formic and Acetic Acids, Aldehyde, Acetone, Chloral, Olefiant Gas, Oxalic Acid, Lactic Acid. Tartaric Acid, Citric Acid. Fats and Oils, Saponification, Glycerine. Cellulose, Sugars, Starch. Products of Distillation of Wood and of Coal. Benzene, Benzoic Acid, Salicylic Acid, Oil of Bitter Almonds. Hydrocyanic Acid, Cyanides, Cyanates, Thiocyanates, Urea.

The following metals, their Oxides, Sulphides, and more important Salts. Potassium, Sodium, Magnesium, Calcium, Strontium, Barium, Aluminium, Zinc, Manganese, Chromium, Iron, Bismuth, Lead, Copper, Mercury, Silver, Tin, Gold, Platinum, Antimony, Arsenic.

Simple Qualitative Analysis. The examination in this is conducted practically. Candidates are required to examine unknown *single salts* for both metallic and salt radicals, as contained in the following lists :—

Silver, Mercurous, Mercuric, Cupric, Lead, Stannous, Stannic, Bismuth, Antimony (*Tartar emetic* may be given), Arsenious, Zinc, Manganous, Ferrous, Ferric, Chromic, Aluminium, Calcium, Barium, Strontium, Magnesium, Ammonium, Sodium, Potassium.

Carbonate, Sulphite, Thiosulphate, Sulphide, Sulphydrate, Hypochlorite (Bleaching solution), Nitrite, Chloride, Bromide, Iodide, Cyanide, Sulphate, Chromate, Orthophosphate, Arseniate, Arsenite, Borate, Oxalate, Nitrate, Chlorate, Acetate.

In the examination, Candidates are supplied with the following reagents, &c. :—Acetic Acid, dilute Hydrochloric Acid, dilute Nitric Acid, Sulphuric Acid, dilute Sulphuric Acid, Alcohol, Iodine, Ammonia, Ammonium Carbonate, Ammonium Chloride, Ammonium Oxalate, Ammonium Sulphide, Barium Nitrate, Bleaching Powder, Calcium Chloride, Calcium Hydrate, Calcium Sulphate, Cobaltous Nitrate, Cupric Sulphate, Ferric Chloride, Ferrous Sulphate, Lead Acetate, Magnesium Sulphate, Mercuric Chloride, Potassium Carbonate, Potassium Chromate, Potassium Ferricyanide, Potassium Ferrocyanide, Potassium Hydrate, Potassium Iodide, Silver Nitrate, Sodium Bitartrate, Sodium Phosphate, Sodium Sulphite, Stannous Chloride, Sulphuretted Hydrogen. *Solids*—Manganese Dioxide, Sodium Carbonate, Borax, Sulphur, Zinc.

Test papers :—Blue Litmus, red Litmus, Plain, Starch, Turmeric, Bunsen Burner, Test Tubes.

Zoology.

(*a.*) The General Principles of Biology.

(*b.*) The distinctive characters of the Invertebrate groups, and the

structure, habits, &c., of Amœba, Paramœcium, Hydra, Arenicola, Hirudo, Anodon, Helix, Nephrops, and Periplaneta.

(*c.*) The distinctive characters of the Chordata groups, and the structure, habits, &c., of Myxine, Raia, Rana, Columba, Ornithorhynchus, Macropus, Lepus, Ovis, and Canis.

(*d.*) The skeletons of Crocodilus, Equus, Felis catus, Balæna, Vespertilio, and Troglodytes.

(*e.*) A general knowledge of the orders of Pisces and Mammalia.

(*f.*) The structure and life-history of Gregarina, Distoma, Tænia, Ascaris, Trichina, and Filaria.

(*g.*) The more important facts of the development of Hydra, Amphioxus, Scyllium, Rana, Gallus and Lepus.

(*h.*) The principles of the Geographical Distribution of Animals, and the Distribution of the Mammalia.

In addition to the above subjects, Candidates will require to possess a general knowledge of Wallace's "Darwinism."

Botany.

The characteristic features of the following groups and classes of the vegetable kingdom :—

Thallophyta [Schizophyta, Algæ, Fungi]; Muscineæ [Hepaticæ, Musci]; Pteridophyta [Filicineæ, Equisetineæ, Lycopodineæ]; Phanerogamæ [Gymnospermæ, Angiospermæ (Monocotyledones, Dicotyledones)].

The fundamental points of Morphology, Physiology, Distribution, and Ætiology of Plants.

The life-histories of the following plants :—Bacterium, Nostoc, Spirogyra, Vaucheria, Fucus, Polysiphonia, Mucor, Pythium, Saccharomyces, Agaricus, Collema, Puccinia, Claviceps, Eurotium, Marchantia, Funaria, Aspidium, Equisetum, Selaginella, Pinus, Scilla, Capsella, Helianthus, Ulmus.

The characters of plants belonging to the chief British natural orders of Phanerogamæ.

Geology including Mineralogy.

1. *Dynamical Geology.*—The nature and operation of geological agents :—The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.

2. *Mineralogy.*—Characters of the more important rock-forming minerals.

3. *Petrology.*—Macroscopic and Microscopic Characters, Composition, Origin and Distribution of the more important Rocks.

4. *Structural Geology.*—Structure of Rock-masses, Bedding, Joints, Cleavage, Foliation, Metamorphism, Faults, Unconformity.

5. *Stratigraphical Geology.*—The History of the Geological Systems of the British Islands.

6. *Palæontological Geology.*—Characters, and distribution in time, of the more important Genera and Orders found fossil in Britain.

7. *Physiographical Geology.*—Origin of the present outlines of the Earth's surface.

DEPARTMENT OF HISTORY.

Constitutional Law and History.

The subject of examination is the Constitutional Law and History of England, as treated of in the works of Stubbs, Hallam, and May, with occasional reference to the constitutions of other countries. See also under "Graduation in Law." The examinations will be held at the same time as those in the Faculty of Law, viz., on or about 21st July and on the last Monday in October.

Roman Law.

The subjects for examination will be (1) The history of the law from the foundation of Rome to Justinian, and the doctrines of the law so far as relating to (*a*) The Personal and Domestic Relations, and (*b*) Property and Real Rights. Maine's "Ancient Law," and Muirhead's "Historical Introduction," are recommended for the historical part of the examination; and Gaius' Institutes, Bk. i. and Bk. ii., §§ 1-96, and Justinian's Institutes, Bk. i. and Bk. ii., Tits. i.-ix., must be professed for the doctrinal part.

Public Law.

I. The Philosophy of Law.

(*a*) The Science of Natural Law; Lorimer, Institutes of Law; Ahrens, Cour de Droit Naturel; Bluntschli, The Theory of the State. (*b*) The Science of Positive Law; The Student's Austin; Holland, Jurisprudence; Sir H. Maine's Works.

II. Public International Law.

Wheaton's "History of the Law of Nations," Hall's "International Law." *See* Faculty of Law.

DATES OF ENTERING FOR EXAMINATIONS FOR DEGREE OF M.A. AND FOR PAYMENT OF FEES.[1]

The fee for each subject, taken separately, is fifteen shillings. The fee for the Degree, with or without Honours, is £5, 5s.

Candidates for Examination may obtain Schedules on application at the Matriculation Office.

The Schedules must be lodged, Certificates shown, and Fees paid as follows:—

For the Examinations in July 1894 in Constitutional Law and History, Roman Law, Public Law, Chemistry, Botany, Zoology, and Geology not later than 13th July.

[1] When names are not entered nor fees paid on or before the stated dates, an additional or late entry fee of ten shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the Examination until his Name is entered, the Fee paid, and all the necessary Certificates, &c, lodged.

II.

FACULTY OF DIVINITY.

SUMMER 1894.

Dean.

PROFESSOR MALCOLM CAMPBELL TAYLOR, D.D., &c.
6 *Greenhill Park.*

Faculty of Divinity.

Full information regarding attendance on Classes, Examinations, and Graduation in Divinity is given in the UNIVERSITY CALENDAR.

HEBREW AND SEMITIC LANGUAGES.

THE SUMMER PREPARATORY CLASSES IN ELEMENTARY HEBREW AND ELEMENTARY ARABIC, conducted by the Class-Assistant under the superintendence of the Professor, open on 2nd May, at 10 A.M., and 11 A.M. Fee for Hebrew, £1, 11s. 6d., and for Arabic, £2, 2s.

The Matriculation Fee for the Summer Session only (1st May to 30th September inclusive) is 10s.

III.

FACULTY OF LAW.

SUMMER 1894.

Dean.

PROFESSOR KIRKPATRICK, LL.D.,

5 *Murrayfield.*

Faculty of Law.

Full particulars regarding attendance on Classes, Examinations, and Graduation in Law are given in the UNIVERSITY CALENDAR.

Programme of Classes.

SUMMER SESSION, 1894.

The Classes in the Faculty of Law will open as follows, and will close on Thursday, 20th July.

Classes.	Days of Opening, and Hours of Lectures.	Professors.	Class Fees.
Civil Law	14 May, 4 o'clock	Prof. Mackintosh.	£5 5
Constitutional Law and History[1].....	14 May, 5 ,,	Prof. Kirkpatrick.	3 3
Scots Law.....	12 May, 9 ,,	Prof. Rankine.....	5 5
Med. Jurisprudence...	1 May, 10 ,,	Prof. Sir D. Maclagan.....	4 4

The Matriculation Fee for the Summer Session (1st May to 30th September inclusive) is 10s. But Candidates who appear for Examination in July, or for Graduation on 1st August, are required to pay the Matriculation Fee of £1, unless already matriculated for the whole year.

[1] Qualifying also as a half-Course for the degree of M.A.

Faculty of Law.

COURSES OF LECTURES.

SUMMER 1894.

I. CIVIL LAW.

PROFESSOR MACKINTOSH.

The Course of Lectures on Civil Law extends over a Winter and a Summer Term, covered by one Class-fee of £5, 5s. The Winter Lectures usually begin on 15th October, and continue until 20th March; the Summer Lectures usually begin on 12th May, and end on 20th July.

The subject-matter of the Course is during the Winter Session the same as that qualifying for Graduation in Arts. See CALENDAR. The Summer Session will be devoted to the doctrines of Succession and Obligations.

The Lectures will be equally adapted for Students intending to enter the legal profession in Scotland or England, or qualifying for service in India or the Colonies.

Text-Books.—The Institutes of Gaius and the Institutes of Justinian.

The "Muirhead Prize" and the "Forensic Prize" are offered annually for competition.

II. SCOTS LAW.

PROFESSOR RANKINE, LL.D.

Students are strongly recommended to make themselves familiar either with Erskine's "Principles" or his "Institutes"

(edition by J. Badenach Nicolson, Esq., 1871). A new edition (the eighteenth) of the former work is the text-book of the Class.

1. Sketch of the Literature of the Law of Scotland—the sources of the Law—the interpretation of Statutes.

2. Personal Relations—marriage and the modes of proving it—patrimonial effects of Marriage—rights of husband and wife—dissolution of Marriage—divorce—tutors and curators—minors—insane—parent and child—succession—heritable and moveable—wills—trusts.

3. Wrongs—personal injury—defamation—ownership of heritable property—rights and liabilities incident thereto—ownership of moveables—copyright—patents.

4. Obligations and Contracts—general requisites, constitution, and construction — partnership — joint-stock companies—factory and agency—sale—commodate—pledge—letting to re—leases—carriers—shipping—insurance—bills of exchange—cautionary—extinction of obligations—diligence—bankruptcy.

5. Parochial Law—burgh and county law—rates and taxes.

6. Law of Evidence.

7. Criminal Law.

Summer Session.

The Lectures on Criminal Law, and part of the lectures on the other subjects above mentioned, are delivered during the Summer Session.

III. CONSTITUTIONAL LAW AND HISTORY.

PROFESSOR KIRKPATRICK, LL.D.

These Lectures, which qualify for Graduation in Law, and also as a half-Course for Graduation in Arts, are given in the Summer Session, daily, except Saturdays, at 5 P.M.; and a fortnightly examination is held on Fridays. Prizes are awarded for distinction in the class-examinations, and also for two essays on subjects to be afterwards announced.

Subject—The Constitutional History and Law of England, with occasional reference to the constitutions of other countries.

For elementary purposes, Students may use Mr Taswell-Langmead's "Constitutional History of England," and Mr S. R. Gardiner's "Student's History of England." For further study they should consult Stubbs's Select Charters and English Constitutional History; Hallam's Middle Ages, Chap. viii.; Hallam's Constitutional History of England, from Henry VII. to George II.; Sir Thomas Erskine May's Constitutional History, from the accession of George III.; The English Constitution by W. Bagehot; Guizot's Lectures on Representative Government; R. Gneist's Self-Government in England, 3d Edition, Berlin, 1871; Gneist's Geschichte und heutige Gestalt der Aemter und des Verwaltungsrechts in England, 2d Edition, Berlin, 1866; Gneist's History of the English Constitution, translated by P. A. Ashworth, London, 1886; and Blackstone's Commentaries, Book IV., of Public Rights.

The Professor's Class Library (adjoining the Lecture Room, and superintended by his Class-Assistant) may be consulted by members of the Class (both ladies and gentlemen) on Mondays and Thursdays, from 10.30 to 1.30 o'clock.

IV. MEDICAL JURISPRUDENCE.

PROFESSOR SIR DOUGLAS MACLAGAN.

For Synopsis of this Course, *see* under Faculty of Medicine.

SUBJECTS OF EXAMINATION.

LAW EXAMINATION (FOR DEGREES OF LL.B. AND B.L.).

Subjects for October 1893 (*and till further notice*).

In PUBLIC LAW the subjects will be *The Philosophy of Law* and *Public International Law*. The books recommended for study are mentioned in the Synopsis of the Professor's Lectures in the CALENDAR.

In CIVIL LAW the examination for both degrees will be on the History of the Law of Rome, and on its Principles as explained in the Institutes of Gaius and Justinian. Candidates for LL.B. will also be examined on Book xviii., tit. i. (*De contrahenda emtione*) and Book xli., tit. i. (*de acquirendo rerum dominio*), of the Digest. The works of Professor Muirhead are recommended to candidates.

In CONSTITUTIONAL LAW AND HISTORY the subject will be—The

Constitutional Law and History of England, down to the first Reform Act. The principal text-books are the works of Stubbs, Hallam, and May. See also Synopsis of the Professor's Lectures.

In the LAW OF SCOTLAND the subject will be the Municipal Civil Law. The works of Mr Erskine and Mr G. J. Bell in the latest editions are recommended to candidates.

In CONVEYANCING the subject of Examination will be Redeemable Heritable Rights and Moveable Rights, including Arbitration and Cautioner's Law.

In MEDICAL JURISPRUDENCE the subjects will be—(1) Identity of the Dead; (2) Wounds; (3) Criminal Abortion and Concealment of Pregnancy; (4) Criminal Responsibility.

In POLITICAL ECONOMY[1] the Examination will be on the subjects treated of in Mr J. S. Mill's "Principles of Political Economy." Candidates will also be expected to show some knowledge of the works of the recent writers mentioned in the Synopsis of the Professor's Lectures. See CALENDAR.

DATES OF LAW EXAMINATIONS IN SUMMER 1894.[2]

21st July—Scots Law, 9 to 1.

23rd July—Civil Law, 9 to 1; Constitutional Law and History, 2 to 4.

24th July—Conveyancing, 9 to 1; Political Economy, 9 to 1; Constitutional Law and History, 2 to 4.

25th July—Public Law, 9 to 1; Medical Jurisprudence, 2 to 5.

Oral Examinations on Friday, 27th July, at 9.

Names to be given in, certificates shown, and fees paid, on or before 13th July.

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[1] Optional for LL.B. instead of Conveyancing.

[2] If names are not entered, and fees are not paid, on or before the stated dates, a late-entry fee of ten shillings must be paid before the Candidate can be admitted to examination.

IV.

FACULTY OF MEDICINE.

SUMMER 1894.

Dean.

PROFESSOR THOMAS RICHARD FRASER, M.D., F.R.S.,

University New Buildings.

Faculty of Medicine.

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Full information regarding attendance on Classes, Examinations, Graduation, &c., is given in the CALENDAR.

Programme of Classes.

SUMMER SESSION, 1894.

The Classes will be opened as follows, and will meet daily (Saturdays excepted), unless otherwise stated.

Classes.	Days of Opening and Hours of Lectures.	Professors.	Class Fees.
Elementary Botany.....	1 May, 8 o'clock	Prof. Bayley Balfour,	£4 4[1]
Practical Botany	1 May, 9 ,,		2 2
Field Demonstrations on *Saturdays*.			
Physics	1 May, 12 ,,	Prof. Tait, ...	3 3
Medical Jurisprudence and Public Health...	1 May, 10 ,,	Prof. Sir Douglas Maclagan,	4 4
Zoology (Elementary).	1 May, 1 ,,	Prof. Ewart,	4 4
Do. (Advanced)...	1 May, 3 ,,		2 2
Practical Zoology (Elementary)	1 May,[5] ,,		2 2[2]
Do. (Advanced)...	2 May,[5] ,,		3 3[2]
Prac. Materia Medica (incl. Pharmacy).....	1 May, 10 ,,	Prof. Fraser,.....	3 3
Chemistry (Practical)..	1 May, 2 ,,	Prof. Crum Brown,	3 3
Do. (Organic)....			
Advanced Class — (*Tues., Wed., & Thur.*)	1 May, 1 ,,		2 2
Anatom. Demonstra.	1 May, 11 *daily.*	Prof. Sir W. Turner and Demonstrators,	2 2
Practical Anatomy.....	1 May, *daily.*		
Anthropology— (*Tues., Wed., Fri.*)	8 May, 2 ,,		2 2[3]
Clinical Surgery, Royal Infirmary (*Mon. & Thurs.*).....	3 May, 12 ,,	Prof. Annandale,	3 3
Clinical Medicine, Royal Infirmary (*Tues. & Fri.*)	1 May, 12 to 2	Profs. Grainger Stewart, Fraser and Greenfield, and Prof. Simpson on Dis. of Women.	3 3
Clinical Instruction in the Royal Infirmary.	12 *daily.* . .	The Clinical Professors	Hospital Ticket.[4]
Obstetrical and Gynecol. Operations— (*Tues. & Fri.*)	1 May, 10 o'clock	Prof. Simpson, ...	£3 3

[1] Besides Garden Fee of 5s. [2] Besides charge of 10s. for Laboratory Expenses.
[3] When taken with Practical Anatomy, £1, 1s. [4] For Fees see next page.
[5] At hours to be arranged.

SUMMER SESSION—*continued.*

Classes.	Days of Opening and Hours of Lectures.	Professors.	Class Fees.
Practical Physiology, including Histology....	1 May, 3 o'cl.	Prof. Rutherford,	£3 3
Do. (Advanced)...	*In Winter only*....		3 3
Operative Surgery and Surgical Appliances	16 April.....	Prof. Chiene, ...	3 3
Practical Morbid Anatomy and Pathology	1 May, 11 o'cl.	Prof. Greenfield,...	3 3
		Lecturers.	
Mental Diseases, with Clinical Instruction at Morningside Asylum (*Mon. Wed. & Frid.*)	2 May, 3 o'clock	Thos. S. Clouston, M.D., ...	3 3[1]
Diseases of the Eye ...	7 May, 9 ,,	D. Argyll Robertson, M.D.,	3 3[1]
Clinical Instruction on Diseases of Children, at Royal Hospital for Sick Children..... (*Tues. and Sat.*)...	5 May, *Tues.* 10.30. *Sat.* 12.0.	James Carmichael, M.D., John Playfair, M.D., ...	1 1[1]

[1] Five Shillings University Entrance-Fee for Non-Matriculated Students.

ROYAL INFIRMARY.

Royal Infirmary at Twelve *daily*.—Perpetual Ticket, in one payment, £12; Annual Ticket, £6, 6s.; Six Months, £4, 4s.; Three Months, £2, 2s. Separate payments, amounting to £12, 12s., entitle to a Perpetual Ticket.

MATRICULATION.

All Students are required to take their tickets for each course of Lectures, which they propose to attend, not later than fifteen days after the commencement of the course, and they must matriculate before they can be enrolled in any of the Classes in the University. Matriculation consists in paying during each year of study an entrance fee of £1 to the University, and in inscribing the name in the Students' Album. The matriculation fee for a Summer Session is 10s. But every Candidate for Degrees in Medicine and Surgery must pay the matriculation fee of £1 for the year in which he appears for Professional Examination or for Graduation.

All Candidates for Degrees, not Students of the University, availing

themselves of the permission to attend the Classes of Extra-Academical Teachers in Edinburgh, must conform to the Ordinance Section VIII., 5, 6. See CALENDAR.

THE MATRICULATION FEES, &C., ARE—

For the Summer Session only (1st May to 30th September inclusive), ...	£0 10 0
(Candidates entering for Graduation Examinations or for Graduation pay £1, unless already matriculated for the whole year.)	
University entrance-fee in lieu of Matriculation for each of certain additional Courses (see Class-Lists), . .	0 5 0

CLASS SESSION.

The Summer Session opens on the 1st May and closes on the 20th of July 1894.

GENERAL MEDICAL COUNCIL REGISTRATION OF STUDENTS OF MEDICINE.

According to the Regulations of the General Medical Council of the United Kingdom, all Medical Students must register in the Medical Students' Register of the General Medical Council within fifteen days after the commencement of Medical Study, and should not neglect this requirement. Forms of application and full information regarding Registration may be obtained from James Robertson, Registrar of the Branch Council for Scotland, 1 George Square, Edinburgh, or at the Office of the Faculty of Medicine.

MINIMUM CURRICULUM FOR THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY, WITH SUGGESTED ORDER OF STUDY AND EXAMINATION.

Before beginning Medical Study, all students must pass the Preliminary Examination in General Education, either at the University, or, if elsewhere, according to the requirements of the University. Immediately after entering on Medical Study, students must register in the books of one or other of the Registrars of the General Medical Council. The Registrar for Scotland is James Robertson, 1 George Square, Edinburgh, from whom forms of Registration and all information on the subject may be obtained.

Medical Study may be begun either in October (Winter Session) or May (Summer Session), and must be engaged in for at least five years.

A.—*For Students beginning in Winter.*

FIRST WINTER SESSION.
- Chemistry, including Practical Chemistry.
- Physics,[1] or Elementary Zoology.
- Anatomy (Lectures).
- *Examination in Chemistry, including Practical Chemistry, and either Physics or Elementary Zoology.*

FIRST SUMMER SESSION.
- Elementary Zoology or Physics.[1]
- Elementary Botany.
- *Examination in Elementary Botany and Elementary Zoology or Physics.*

SECOND WINTER SESSION.
- Practical Anatomy.
- Physiology.
- Surgery.

SECOND SUMMER SESSION.
- Practical Physiology.
- Practical Materia Medica.
- Clinical Surgery (with Dressership).
- Hospital.

THIRD WINTER SESSION.
- Materia Medica.
- Practical Anatomy.
- Clinical Surgery (with Dressership).
- Hospital.
- *Examination in Anatomy, Physiology, and Materia Medica and Therapeutics* (the last may be postponed to the end of the following summer).

THIRD SUMMER SESSION.
- Practical Pathology.
- Medical Jurisprudence and Public Health.
- Clinical Medicine.
- Hospital.
- *Examination in Materia Medica and Therapeutics* (if not previously taken).

FOURTH WINTER SESSION.
- Pathology.
- Medicine.
- Midwifery and Diseases of Women and Children.
- Clinical Medicine (with Clerkship).
- Hospital.
- *Examination in Pathology, and in Medical Jurisprudence and Public Health* (the latter may be postponed to the end of the following summer).

FOURTH SUMMER SESSION.
- *Examination in Medical Jurisprudence and Public Health* (if not previously taken).

FOURTH SUMMER AND FIFTH WINTER SESSION.
- Clinical Medicine.
- Clinical Surgery.
- Mental Diseases.
- Ophthalmology.
- Post-mortem Examinations.
- Fevers.
- Diseases of Children.
- Out-practice of an Hospital, Dispensary, &c.
- Midwifery Cases and Practice
- Vaccination.
- Hospital.

FIFTH SUMMER SESSION.
- *Examination in Surgery and Clinical Surgery, Medicine and Clinical Medicine, and Midwifery.*

[1] Three months' course.

B.—*For Students beginning in Summer.*

FIRST SUMMER SESSION.
- Elementary Botany.
- Elementary Zoology or Physics.[1]
- *Examination in Elementary Botany, with either Physics or Elementary Zoology.*

FIRST WINTER SESSION.
- Chemistry, including Practical Chemistry.
- Elementary Zoology or Physics.[1]
- Anatomy (Lectures).
- *Examination in Chemistry, including Practical Chemistry and either Elementary Zoology or Physics.*

SECOND SUMMER SESSION.
- Practical Anatomy.
- Practical Physiology.

SECOND WINTER SESSION.
- Physiology.
- Surgery.
- Practical Anatomy.

THIRD SUMMER SESSION.
- Practical Anatomy.
- Practical Materia Medica.
- Clinical Surgery (with Dressership).
- Hospital.

THIRD WINTER SESSION.
- Practical Anatomy.
- Materia Medica.
- Clinical Surgery (with Dressership).
- Hospital.
- *Examination in Anatomy, Physiology, and Materia Medica and Therapeutics* (the last may be postponed to the end of the following summer).

FOURTH SUMMER SESSION.
- Practical Pathology.
- Medical Jurisprudence and Public Health.
- Clinical Medicine.
- Hospital.
- *Examination in Materia Medica and Therapeutics* (if not previously taken).

FOURTH WINTER SESSION.
- Pathology.
- Medicine.
- Midwifery and Diseases of Women and Children.
- Clinical Medicine (with Clerkship).
- Hospital.
- *Examination in Pathology, and Medical Jurisprudence and Public Health* (the latter may be postponed to the end of the following summer).

FIFTH SUMMER SESSION.
- *Examination in Medical Jurisprudence and Public Health* (if not previously taken).

FIFTH SUMMER AND FIFTH WINTER SESSION.
- Clinical Medicine.
- Clinical Surgery.
- Mental Diseases.
- Ophthalmology.
- Post-mortem Examinations.
- Fevers.
- Diseases of Children.
- Out-Practice of an Hospital, Dispensary, &c.
- Midwifery Cases and Practice.
- Vaccination.
- Hospital.
- *Examination in Surgery and Clinical Surgery, Medicine and Clinical Medicine, and Midwifery.*

[1] Three months' course.

Faculty of Medicine.

COURSES OF LECTURES, &c.

SUMMER 1894.

I. BOTANY.

PROFESSOR BAYLEY BALFOUR.

1. LECTURES ON ELEMENTARY BOTANY.—The course is a general one—Morphological, Physiological, and Systematic.

2. ELEMENTARY PRACTICAL CLASS.—In this class opportunity is given for the examination of microscopic structure of plants, and for the study of life-histories of plants illustrating the lectures. It is conducted by the Professor, and Assistants.

3. EXCURSIONS. — Excursions are made on Saturdays for the practical study of plants in the fields.

4. BOTANICAL RESEARCH.—The Botanical Laboratory is open for research work.

II. NATURAL HISTORY.

PROFESSOR EWART.

Summer Session, 1894.

1. LECTURES ON ZOOLOGY.

The first part of the course will treat of the Principles of Biology as illustrated by the Life-History, Morphology, and

Physiology of one of the Vertebrata. The Distinctive Characters of the Chordata, and the structure, habits, &c., of a series of vertebrate types will next be considered. The rest of the course will be chiefly devoted to a consideration of (1.) The various Invertebrate Groups, the leading types of which will be described in detail. (2.) The structure and life-history of the more important animal parasites, and (3.) The Embryology, Classification, and Geographical Distribution of Animals.

2. Elementary Practical Zoology.

In this Class Students have the opportunity of studying practically the more important types described in the Lectures, amongst others: — Amœba, Paramœcium, Hydra, Distoma, Hirudo, Arenicola, Anodonta, Helix, Nephrops, Periplaneta, Raia, Rana, Columba, and Lepus.

3. Advanced Class.

A course of Lectures especially intended to assist Students in their preparation for the Second B.Sc. in Zoology and Comparative Anatomy may be given during the Summer Session. In this Class an account would be given of the Comparative Morphology of the chief systems of organs of the Invertebrata, more especially of the nervous, reproductive, locomotor, and excretory systems, and also of the phenomena of Reproduction in the Protozoa and Metazoa.

In this course the principles which form the scientific basis of Comparative Morphology will be placed prominently before the student, and an account will also be given of the progress of Scientific Research, and the more important recent discoveries will be described. If held, the class will meet at least three times each week during the Summer Session.

Laboratory Work.

The Laboratory will be open for the dissection and microscopic examination of a series of invertebrate and vertebrate types, and for the acquiring of a practical acquaintance with the methods of research.

Research Work.

The Laboratories will also be available for research. Students desiring to be admitted for this purpose should apply to the Professor. No Laboratory fees will be charged for such Students.

III. CHEMISTRY.

PROFESSOR CRUM BROWN.

1. Advanced Class.—A Class for Advanced Students is held in Summer. The subject for the Summer of 1894 will be Organic Chemistry.

2. Laboratory.—The instruction in the Laboratory is given by the Professor, assisted by Dr Dobbin, Dr Marshall, and Mr Watson.

Attendance on this Course qualifies as "Practical Chemistry" for the First Professional Examination.

3. Practical Classes.—In these classes the principles of Chemical action are illustrated by the Examination, by the Students themselves, of the reactions of Salts.

IV. PHYSICS.

PROFESSOR TAIT.

The subjects embraced in the Course of Physics are the following:—

1. Properties of Matter—including Inertia, Gravitation, Molecular Forces, &c.

2. Abstract Dynamics—including Kinematics and Newton's Laws of Motion, with their consequences as regards Statics and Kinetics of Solid, Liquid, and Gaseous Bodies, with the Physical Measurement of time.

3. Sound, and Wave-propagation in general, Intensity, Pitch, and Quality of Musical Sounds, Harmonics, Concords, &c.

4. Heat, its Nature, Effects, Measurement, Transference, and Transformations—Measurement of Temperature and of Absolute Temperature; Thermo-dynamics.

5. Light (1) Geometrical Optics, Speed of Light, Laws of Reflection and Refraction, Construction and Effects of Mirrors,

Prisms, Lenses, and Microscopes, Images, Conditions of Distinct Vision; (2) Physical Optics, Interference, Dispersion, Diffraction, Double Refraction, Polarization, Spectrum Analysis.

6. Electricity, including Frictional and Voltaic Electricity, Thermo- and Magneto- Electricity, Electro-Dynamics, and Magnetism, with their practical applications. Measurements of Potential, Electromotive Force, Current, &c., Batteries, Dynamos, Electrometers, Galvanometers, Voltameters, &c.

V. ANATOMY.

PROFESSOR SIR WILLIAM TURNER.

1. PRACTICAL ANATOMY, under the superintendence of the Professor, aided by the Demonstrators, David Hepburn, M.D., C.M., James Musgrove, M.D., J. B. Yeoman, and by several other assistants. Examinations of both Junior and Senior Students on dissected parts are regularly conducted by the Demonstrators and the Professor. Special tutorial Demonstrations will also be given to the Senior Students on the joints, the brain, the organs of special sense, and other viscera.

This Course will commence on Tuesday, May 1st. The Dissecting-rooms are open from 9 A.M. to 5 P.M., and on Saturdays from 9 A.M. to noon.

Text-Books.—"Demonstrations of Anatomy," by Ellis, or Heath's "Practical Anatomy," or Holden's "Manual of the Dissection of the Human Body," or Cunningham's "Dissector's Guide."

2. ANATOMICAL DEMONSTRATIONS, at 11 A.M.—In this Course, which is conducted in the Theatre, the structure of the human body is displayed and demonstrated topographically, from the surface inwards. The Professor and the Demonstrator, David Hepburn, M.D., will jointly conduct the Course.

This Course is open, without additional Fee, to those engaged in Practical Anatomy during the Summer, and will consist of demonstrations on some special departments of Anatomy.

VI. INSTITUTES OF MEDICINE OR PHYSIOLOGY.

PROFESSOR RUTHERFORD.

Practical Physiology.

This Course is divided into three sections—

1. *Practical Histology*, in which every Student prepares, examines, and preserves for himself most of the tissues and organs of the body. Each student is provided with a microscope, and all reagents.

2. *Practical Chemical Physiology*, in which every student performs the qualitative and quantitative analysis of the Urine in its normal and abnormal conditions, with special reference to clinical work, and such practical work at the Chemistry of Proteids and Carbohydrates, Digestion, Blood, Milk, and Bile as is possible in a class.

The above sections of the class are held both in the Winter and Summer Sessions. In each session the class meets sixty times.

In Summer the Class is divided into small sections that meet daily at 8, 9, 10, 2, and 3 o'clock daily. In Winter the Class meets at 1 o'clock thrice a week.

3. *Demonstrations of Physiological Instruments.*—This section of the class is held only in Winter, and is open to all who have attended the other sections of the course.

An Advanced Class of Practical Physiology, devoted to Advanced Studies in Experimental and Chemical Physiology and Histology, for Science and other Students, is held in Winter at such hours and on such days as are found convenient.

Physiological Research.

The Physiological Laboratory is open daily for the prosecution of Physiological Research. Application must be made to the Professor.

VII. MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR THOMAS R. FRASER.

PRACTICAL CLASSES.—In these classes, *practical* instruction is given in the following subjects embraced in Materia Medica, but which cannot satisfactorily be taught in a course of lectures :—1. Pharmacognosy, or the recognition of drugs by their physical and chemical characters, and the detection of adulterations. 2. Pharmacy, or the processes for obtaining the pharmaceutical preparations of drugs. 3. Dispensing, or the making up of medicines in forms suitable for administration in disease.

It is recommended that the practical class be attended before the course of lectures on Materia Medica and Therapeutics. Practical classes are taught during the Summer Session, when they meet daily at such hours as are found most convenient. A winter class will also be formed in October.

RESEARCH LABORATORIES.

The above laboratories are open daily to present and former Students of the class of Materia Medica for Research on the pharmacological action and chemical composition of Medicinal substances, under the superintendence of the Professor and his Assistants. Application to be made to the Professor.

VIII. GENERAL PATHOLOGY, INCLUDING MORBID ANATOMY.

PROFESSOR GREENFIELD.

PRACTICAL PATHOLOGY.

Classes for Practical Instruction in MORBID ANATOMY and PATHOLOGICAL HISTOLOGY are conducted in the Pathological Laboratory—microscopes and other necessary apparatus being supplied. The Course consists of—1st. Naked Eye Demonstration; 2d. Histological investigation and preparation of Morbid Structures and Organs; 3rd. Elementary Bacteriology.

The Class meets five times a week, from the beginning of May till the end of July.

The Laboratory is also open daily from 10 A.M. till 4 P.M. for Pathological Research, under the direction of the Professor and his Assistants.

IX. SURGERY.

PROFESSOR CHIENE.

Summer Session.

The Summer Session is devoted to a consideration of the Practical Aspects of Surgery. Special attention is given to Surgical Anatomy and Operative Surgery. Oral examinations and tutorial instruction in the Treatment of Fractures and Dislocations, and in the uses of surgical instruments, form a special part of the course. Special demonstrations are given on Surgical Pathology.

The Surgical Laboratory is divided into two departments,—1st, Surgical Pathology; 2d, Bacteriology. It is open daily for original work during the Winter and Summer Sessions, under the superintendence of the Professor, assisted by Harold J. Stiles, M.B. Applications to be made to the Professor.

Text-Books—Summer Session.—The Professor's "Lectures on Surgical Anatomy," and Joseph Bell's Manual of Surgical Operations, 1892.

X. MIDWIFERY AND THE DISEASES OF WOMEN AND CHILDREN.

PROFESSOR SIMPSON.

Summer Session.

A Course of Instruction in Obstetric and Gynecological Operations, with Demonstrations of the use of Instruments and Appliances, is conducted during the Summer Session at 10 A.M.

On Tuesdays and Fridays the Professor gives Lectures and Demonstrations. On the other days of the week the sections of the class are trained in the investigation and treatment of Female Diseases, and the members of the class have an opportunity of practising operations on lay figures.

Text-Books.—Playfair's, Lusk's, or Parvin's "Midwifery." The Professor's "Contributions to Obstetrics and Gynecology." Hart and Barbour's "Manual of Gynecology."

XI. MEDICAL JURISPRUDENCE.

PROFESSOR SIR DOUGLAS MACLAGAN.

Part I.—Medical Jurisprudence.

MEDICAL EVIDENCE GENERALLY.

1. Documentary.
2. Oral.
3. Experimental—

   Examination of the living; identity; Examination of the dead; identity; cause of death; exhumations, autopsies.

MEDICAL EVIDENCE SPECIALLY.

Questions affecting Health or Life.

1. Assaults and Homicide—

   Wounds and other external injuries; asphyxia. Starvation. Heat and cold. Poisons.
2. Suicide.
3. Offences against Chastity—

   Rape, &c.; concealment of pregnancy; criminal abortion; infanticide.
4. Malpraxis and Neglect of Duty.

Questions affecting Civil Rights or Social States.

Marriage and Divorce. Impotence and sterility. Live birth. Survivorship. Insanity. Feigned diseases.

Part II.—Medical Police. Public Health.

HYGIENE OF INDIVIDUALS.

Man—

Age and development. Sex. Constitution.

External Agencies—

Food and Drink. Air. Clothing. Ablutions. Exercise.

Habits and Modes of Life—

Temperance. Celibacy and Marriage. Professions: learned, mechanical, criminal. Punishments. Prostitution.

Duration and Expectancy of Life—

Life Assurance.

HYGIENE OF COMMUNITIES.

Sanitary Administration.

Climate—

Causing disease; remedying disease.

Towns, Camps, and Private Habitations—

Topographical position; water supply; heating and lighting; ventilation; drainage and sewerage.

Public Buildings—

Schools; churches; hospitals; theatres; prisons.

Cemeteries. Quarantine Establishments. Epidemics; Endemics. Disinfectants.

Text-Books.—Taylor's "Medical Jurisprudence," Guy's "Principles of Forensic Medicine," Parkes' "Practical Hygiene," Wilson's "Handbook of Hygiene," Louis Parkes' "Hygiene," Wynter Blyth's "Manual of Public Health," Whitelegge's "Hygiene and Public Health," Smith's "Laws Concerning Public Health," Vesey Fitzgerald's "Epitome of the Laws affecting Health," Newsholme's "Vital Statistics," Dykes' and Stuart's "Manual of Public Health Acts."

Public Health Laboratory.

The Laboratory comprises three Departments, the Chemical Laboratory, the Bacteriological Laboratory, and a station for

making meteorological observations, and the examination of emanations from the soil.

The Laboratories will be open daily during the Winter and Summer Sessions, from 10 to 4, under the superintendence of the Professor and Charles Hunter Stewart, M.B., B.Sc.

The work in these Laboratories will constitute an advanced course of instruction in the Methods of Hygienic investigation, and is intended for those who may desire to prepare themselves for taking the Degrees of Science in Public Health, or for the duties of Medical Officer of Health.

The Fees are £10, 10s..for the Winter, and £6, 6s. for the Summer Session.

XII. CLINICAL SURGERY.

PROFESSOR ANNANDALE.

The objects of this Course are to teach the symptoms, diagnosis, and treatment of Surgical diseases and injuries as met with in the living body, and to point out modifications and complications which occur in connection with them. With these views patients are brought before the class in the special University Clinical Theatre of the Infirmary, and their conditions are carefully examined and discussed, due regard being taken to avoid anything likely to injure their feelings or in any way aggravate their disease. The history and nature of the case having been studied, the proper treatment is suggested and described, and is then either carried out at once or on the first convenient occasion. In addition to the regular lectures operations are performed in the Clinical Theatre, practical demonstrations are given in the wards of the Infirmary, and upon two days in the week the cases of patients attending the out-patient department are specially considered by the Assistant Surgeon, Dr Thomson, so as to instruct the students in connection with the minor and more common surgical affections. Practical instruction as to the examination of patients, the observation of symptoms, the treatment of surgical emergencies, the use of instruments, the application of dressings, and other surgical

details is given by the Clinical Tutor (Dr Logan Turner) attached to the Chair, in small classes, which are free to all Students attending the Course.

Text-Books.—Any of the recent standard works upon Surgery. Students are also advised to study some of the best works (old and new) on the special subjects of Practical Surgery.

XIII. CLINICAL MEDICINE.

PROFESSORS GRAINGER STEWART, FRASER, AND GREENFIELD, WITH PROFESSOR SIMPSON FOR DISEASES OF WOMEN.

The course of Clinical Medicine, consisting of Clinical Lectures and Instruction in the University wards of the Royal Infirmary, is conducted conjointly by the Clinical Professors—all the Professors being on duty during both the Winter and Summer Sessions, the Professor of Midwifery giving lectures and demonstrations on Gynecological Medicine on certain days.

The Course consists of:—1. Practical Instruction on three days a week at the bedside. 2. Critical Expositions and Discussions of cases in the lecture-room on two days a week.

Every facility is afforded to members of the Class to act as Clinical Clerks, and those are preferred who have already had a course of tutorial instruction. At the close of each Summer Session, six gentlemen, who have been members of the Class, are appointed to be Resident Physicians in the Clinical Wards during the following Winter and Summer Sessions.

Clinical Tutorial Class.

Practical instruction in the Methods of Physical Examination is given to the members of the Class by the University Clinical Tutors.

Junior Students are strongly advised to take this course of instruction along with their first course of Clinical Medicine.

LECTURESHIPS.

I. MENTAL DISEASES.

LECTURER—THOMAS S. CLOUSTON, M.D.

The Class meets on three days a week—viz., Monday, at the University, at 3 o'clock ; and on Wednesday and Friday, at the Royal Asylum, at 2.30.

This course consists of—

1. Systematic Lectures in the University during the Summer Session on the Classification, Symptoms, Causes, and Treatment of Mental Diseases.

2. Pathological demonstrations, naked eye and microscopic, in the University and at the Royal Asylum, Morningside, of the Morbid Anatomy of Insanity. Students will have an opportunity of original investigation in the Pathological Museum of the Asylum.

3. Clinical instruction at the Royal Asylum, Morningside (West House), in all the forms of Mental Disease. Students have the opportunity of personally coming in contact with and examining the cases, so as to learn the modes of managing and dealing with patients labouring under Mental Disease, and they are exercised in the diagnosis of Insanity and the drawing up of certificates; the aim being to enable them to recognise its early stages, to distinguish its varieties, to adopt suitable treatment, and to advise the relatives as to the question of sending the patient to an asylum or not. There is a clinical field of 500 beds, comprising all the wards except those for private patients. This part of the course extends through the Summer and the last month of the Winter Session.

4. Instruction in regard to the medico-legal, hereditary, educational, and social relations of Mental Disease, and on its bearings and significance in ordinary medical practice.

There are Free Clinical Clerkships, tenable for three months,

in the Royal Edinburgh Asylum, and in several other Asylums, in connection with the class.

Text-Book.—Dr Clouston's "Clinical Lectures on Mental Diseases."

II. DISEASES OF THE EYE.

LECTURER—D. ARGYLL ROBERTSON, M.D.

The course will consist—

1. Of systematic lectures delivered daily at 9 A.M. for seven weeks during the Summer Session, at which the symptoms, diagnosis, and treatment of the more important diseased conditions of the eye and its appendages will be discussed. The lectures will be illustrated by drawings, diagrams, &c.

2. Of clinical instruction daily at the Ophthalmic wards of the Royal Infirmary, where opportunities will be afforded for practising the use of the ophthalmoscope. Special practical instruction will be given in ophthalmoscopic affections and errors of refraction.

Text-Books.—Swanzy's "Handbook on Diseases of the Eye," Lawson on "Diseases and Injuries of the Eye," or Nettleship on "Diseases of the Eye."

Works of reference.—Berry's "Treatise on Diseases of the Eye." Meyer's "Practical Treatise on Diseases of the Eye," translated by Fergus. Text-Book of Ophthalmology by Dr Fuchs, translated by Dr Duane.

III. CLINICAL INSTRUCTION ON DISEASE IN CHILDREN.

LECTURERS—JAMES CARMICHAEL, M.D., JOHN PLAYFAIR, M.D.

Two Courses, each of three months' duration, will be conducted annually, one during the Winter Session, and one during the Summer Session.

The instruction is given in the wards of the Royal Hospital for Sick Children. Special attention is directed to Hygiene, Diagnosis, and Treatment during the period of Infancy.

Works of reference.—Keating's "Cyclopædia of the Diseases of Children," Henoch or Eustace Smith on "Disease in Children."

Text-Book. — Carmichael's "Manual of Disease in Children."

REGULATIONS AS TO CLASS EXAMINATIONS.

With a view to promote the Educational interests of the students during the time they are occupied with the respective subjects in the Classes, the Senatus recommend :—

1. That there should be at least two Special Class-Examinations in the Classes in the Faculty of Medicine during each Session, conducted by means of questions and written answers, without aid from books or notes.

2. That in the event of a student gaining 75 per cent. or more of the available marks in any department, he shall obtain a Certificate in the First Class of Honours.

3. That in the event of a student gaining 50 per cent. or more, but less than 75 per cent., of the available marks in any department, he shall receive a Certificate in the Second Class of Honours.

University Bronze Medals are also given for Competitive Class Examinations.

CERTIFICATES OF ATTENDANCE ON CLASSES IN THE FACULTY OF MEDICINE.

The Senatus Academicus have resolved that the Certificates of Attendance to be granted to students in the Faculty of Medicine shall be regulated in the following manner :—

Each Professor shall ascertain the presence of his pupils at least twenty-six times in a Course of six months' duration, and thirteen times in a Course of three months' duration.

Those who have been absent twelve or more times in a six months' Course, or six or more times in a three months' Course, or have not duly

performed the work of the Class, including any Examinations that may be held, shall not be entitled to any Certificate.

The following is the form of Certificate which must be adopted in all cases :—

"I certify that Mr attended my Course of Instruction on during the Session ; that he was present on of the occasions on which attendance was ascertained ; and that he duly performed the work of the class."

Exceptions will be admitted in the case of those who may be absent from sickness or other unavoidable causes, the particulars of which must be stated to the Professor in writing, accompanied with certificates. All excuses for non-attendance must be given in immediately upon the student returning to his class. But if any student shall have been absent for six weeks or upwards, in a Course of six months, or for three weeks in a Course of three months (whatever the cause of absence may be), his case must be transmitted to the Dean of the Faculty for the decision of the Faculty.

Whenever the student's cause for absence shall be admitted by the Professor or by the Faculty, the Certificate shall bear that he "attended," and shall state the amount of the irregularity and the nature of the excuse.

Full information regarding attendance on Classes and Graduation in Medicine is given in the CALENDAR.

FIRST PROFESSIONAL EXAMINATION.

The Faculty of Medicine have resolved that the written and oral examinations on Chemistry, Elementary Botany, Elementary Zoology, and Physics shall be restricted in the following manner :—

1. *Chemistry.* — Classification of Elements. General Laws of Chemical Combination and Action, as illustrated in the simpler compounds of the more commonly occurring elements.

Symbolic Notation.

Preparation and Properties of the Non-Metallic Elements and their chief Compounds. Atomic Theory. Combining Volumes of Gases. Relation of Volume of Gas to Temperature and Pressure.

General Properties of Acids, Bases, and Salts—Electrolysis.

Oxygen, Ozone, Oxidation, and Reduction.

Hydrogen, Water, Peroxide of Hydrogen, Chlorine, Hydrochloric Acid, Hypochlorites, Chlorates, Bromine, Hydrobromic Acid, Iodine, Hydriodic Acid, Iodates, Fluorine, Hydrofluoric Acid. Sulphur, Sulphuretted Hydrogen, Oxides of Sulphur, Sulphites, Sulphates, Thiosulphates, Nitrogen, The Atmosphere, Oxides of Nitrogen, Nitrates, Nitrites, Ammonia, Ammonium Salts, Phosphorus, Oxides of Phos-

phorus, Chlorides and Oxychloride of Phosphorus, Phosphates, Phosphites, Hypophosphites, Boron, Boracic Acid, Borates, Silicon, Silica, Silicates, Chloride of Silicon, Fluoride of Silicon, Hydrofluosilicic Acid.

Carbon, Oxides of Carbon, Carbonates, Phosgene. Classification of Carbon Compounds. Marsh Gas and its Homologues. Chloroform. Methylic and Ethylic Alcohols and Ethers. Methylamine, Dimethylamine, Trimethylamine, Tetramethylammonium. Formic and Acetic Acids, Aldehyde, Acetone, Chloral, Olefiant Gas, Oxalic Acid, Lactic Acids. Tartaric Acid, Citric Acid. Fats and Oils, Saponification, Glycerine. Cellulose, Sugars, Starch. Products of Distillation of Wood and of Coal. Benzene, Benzoic Acid, Salicylic Acid, Oil of Bitter Almonds. Hydrocyanic Acid, Cyanides, Cyanates, Thiocyanates, Urea.

The following metals, their Oxides, Sulphides, and more important Salts. Potassium, Sodium, Magnesium, Calcium, Strontium, Barium, Aluminium, Zinc, Manganese, Chromium, Iron, Bismuth, Lead, Copper, Mercury, Silver, Tin, Gold, Platinum, Antimony, Arsenic.

Simple Qualitative Analysis. The examination in this is conducted practically. Candidates are required to examine unknown *single salts* for both metallic and salt radicals, as contained in the following lists:—

Silver, Mercurous, Mercuric, Cupric, Lead, Stannous, Stannic, Bismuth, Antimony (*Tartar emetic* may be given), Arsenious, Zinc, Manganous, Ferrous, Ferric, Chromic, Aluminium, Calcium, Barium, Strontium, Magnesium, Ammonium, Sodium, Potassium.

Carbonate, Sulphite, Thiosulphate, Sulphide, Sulphydrate, Hypochlorite (Bleaching solution), Nitrite, Chloride, Bromide, Iodide, Cyanide, Sulphate, Chromate, Orthophosphate, Arseniate, Arsenite, Borate, Oxalate, Nitrate, Chlorate, Acetate.

In the examination, Candidates are supplied with the following reagents, &c.:—Acetic Acid, dilute Hydrochloric Acid, dilute Nitric Acid, Sulphuric Acid, dilute Sulphuric Acid, Alcohol, Iodine, Ammonia, Ammonium Carbonate, Ammonium Chloride, Ammonium Oxalate, Ammonium Sulphide, Barium Nitrate, Bleaching Powder, Calcium Chloride, Calcium Hydrate, Calcium Sulphate, Cobaltous Nitrate, Cupric Sulphate, Ferric Chloride, Ferrous Sulphate, Lead Acetate, Magnesium Sulphate, Mercuric Chloride, Potassium Carbonate, Potassium Chromate, Potassium Ferricyanide, Potassium Ferrocyanide, Potassium Hydrate, Potassium Iodide, Silver Nitrate, Sodium Bitartrate, Sodium Phosphate, Sodium Sulphite, Stannous Chloride, Sulphuretted Hydrogen. *Solids*—Manganese Dioxide, Sodium Carbonate, Borax, Sulphur, Zinc.

Test papers:—Blue Litmus, red Litmus, Plain, Starch, Turmeric, Bunsen Burner, Test Tubes.

2. *Elementary Botany.*—The characteristic features of the following groups and classes of the vegetable kingdom:—

Thallophyta [Schizophyta, Algæ, Fungi]; Muscineæ [Hepaticæ, Musci]; Pteridophyta [Filicineæ, Equisetineæ, Lycopodineæ]; Phanerogamæ [Gymnospermæ, Angiospermæ (Monocotyledones, Dicotyledones)].

The fundamental facts and principles of Morphology (including Anatomy, Histology, and Development) and Physiology. The life-history of the following plants:—Bacterium, Saccharomyces, Mucor, Vaucheria, Eurotium, Funaria, Aspidium, Pinus, Scilla, Helianthus, Ulmus; and the characters of plants belonging to the following natural orders of Phanerogamæ:—Coniferæ, Gramineæ, Orchideæ, Liliaceæ, Urticaceæ, Labiatæ, Compositæ, Umbelliferæ, Rosaceæ, Leguminosæ, Cruciferæ, Ranunculaceæ.

3. *Elementary Zoology.*—(*a*) The General Principles of Biology.

(*b*) The distinctive characters of the Invertebrate groups and the structure, habits, &c., of Amœba, Paramœcium, Hydra, Arenicola, Hirudo, Anodon, Helix, Nephrops, and Periplaneta.

(*c*) The distinctive characters of the Chordata groups, and the structure, habits, &c., of Myxine, Raia, Rana, Columba, Ornithorhynchus, Macropus, Lepus, Ovis, and Canis.

(*d*) The skeletons of Crocodilus, Equus, Felis catus, Balæna, Vespertilio, and Troglodytes.

(*e*) A general knowledge of the orders of Pisces and Mammalia.

(*f*) The structure and life-history of Gregarina, Distoma, Tænia, Ascaris, Trichina, and Filaria.

(*g*) The more important facts of the development of Hydra, Amphioxus, Scyllium, Rana, Gallus, and Lepus.

(*h*) The principles of the Geographical Distribution of Animals, and the Distribution of the Mammalia.

4. *Physics.*—(*a*) Properties of Matter—including Inertia, Gravitation, Molecular Forces, &c.

(*b*) Abstract Dynamics—including Kinematics and Newton's Laws of Motion, with their consequences as regards Statics and Kinetics of Solid, Liquid, and Gaseous Bodies, with the Physical Measurement of Time.

(*c*) Sound and Wave-propagation in general, Intensity, Pitch and Quality of Musical Sounds, Harmonics, Concords, &c.

(*d*) Heat, its Nature, Effects, Measurement, Transference and Transformations—Measurement of Temperature and of absolute Temperature, Thermodynamics.

(*e*) Light (1), Geometrical Optics, Speed of Light, Laws of Reflection and Refraction, Construction and Effects of Mirrors, Prisms, Lenses, and Microscopes, Images, Conditions of Distinct Vision. (2) Physical Optics—Interference, Dispersion, Diffraction, Double Refraction, Polarisation, Spectrum Analysis.

(*f*) Electricity, including Frictional and Voltaic Electricity, Thermo- and Magneto-Electricity, Electro-Dynamics and Magnetism, with their

practical applications. Measurements of Potential, Electromotive Force, Current, &c., Batteries, Dynamos, Electrometers, Galvanometers, Voltameters, &c.

HONOURS AT PROFESSIONAL EXAMINATIONS.

Candidates who have displayed special merit at any of the Professional Examinations will be announced as having passed that Examination "with distinction."

Candidates who have displayed special merit at each of the Professional Examinations will be announced, at the time of the Graduation, as having obtained FIRST or SECOND CLASS HONOURS, according to the merit that has been displayed.

DATES OF EXAMINATIONS, AND FOR PRESENTING CERTIFICATES, AND PAYING FEES FOR DEGREES,[1] &c.

The dates of the Examinations in Summer 1894 have been fixed as follows, and Candidates are required to assemble in the Examination Hall at the University a quarter of an hour before the time fixed for examination.

PROFESSIONAL EXAMINATIONS UNDER NEW REGULATIONS.[2]

Candidates are required to present their Certificates for Examinations at the Office of the Faculty of Medicine, University (New Buildings), and to pay the fees at the Matriculation Office.

Candidates, in lodging statements of their Courses of Study with the Dean of the Faculty, will observe that for all Courses and Subjects of Study the Faculty will receive Certificates only as evidence of attendance.

FIRST PROFESSIONAL EXAMINATION.[1]

Practical Examination in Chemistry—21st July 1894, and, if necessary, subsequent days, at hours to be announced.

Written Examinations—23rd July 1894—Chemistry at 10 o'clock; Botany at 1 o'clock. 24th July 1894—Zoology at 10 o'clock; Physics at 1 o'clock.

Oral Examinations begin 25th July 1894.

Names to be given in, Certificates shown, and Fees paid on or before 13th July 1894.[1]

[1] When names are not entered nor fees paid on or before the stated dates, a late entry fee of ten shillings must be paid before the Candidate can be admitted to Examination. A Candidate is not held to have entered for the Examination until his Name is entered, all the necessary Certificates, &c., lodged, and the Fee paid.

[2] For dates of Examinations under Old Regulations, see page 70.

Second Professional Examination.[1]

Written Examinations—18th July 1894—Anatomy at 10 o'clock; Physiology at 1 o'clock. 19th July 1894—Materia Medica and Therapeutics at 10 o'clock.

Oral Examinations begin on 19th July.

Names to be given in, Certificates shown, and Fees paid on or before 9th July 1894.

Third Professional Examination.[1]

Written Examinations—18th June 1894—Medical Jurisprudence and Public Health at 1 o'clock. 19th July 1894—Pathology at 1 o'clock.

Oral Examinations begin 20th June and 20th July.

Names to be given in, Certificates shown, and Fees paid on or before 17th April and 9th July 1894.

Fourth Professional Examination.[1]

Written Examinations—1st May 1894—Clinical Medicine Examinations begin. 3rd May 1894—Clinical Surgery Examinations begin. 18th June 1894—Practice of Medicine at 10 o'clock. 19th June 1894—Surgery at 10 o'clock; Midwifery at 1 o'clock.

Oral Examinations begin 20th June.

Names to be given in, Certificates shown, and Fees paid on or before 17th April 1894.

Theses for M.D. to be given in, Certificates shown, and Fees paid on or before 30th April 1895, and Stamp Duty to be paid before 15th July.[1]

Registration as Member of General University Council.[1]

Every Candidate should intimate his intention to graduate, and pay the Fee of £1 for Registration as a member of the University General Council (if not already a member) on or before 20th July.

Graduation.[1]

Wednesday, 1st August 1894, at 10 A.M. Candidates to assemble at 9 A.M.

Names to be entered for Graduation, and Registration Fees paid on or before 20th July.

Information relative to Matriculation and the Curriculum of Study, and the Subjects of Examinations for Degrees in Medicine and Surgery, and for Fellowships, Scholarships, Bursaries, Prizes, &c., &c., may be obtained on application to the Dean of the Faculty of Medicine, University (New) Buildings.

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[1] See footnote, page 67.

FEES FOR DEGREES IN MEDICINE AND SURGERY.

FEES FOR M.B. AND CH.B.

Fee for the First Division of the Examination, viz., Botany, Zoology, Physics, and Chemistry, . .		£6 6 0
or		
For any two of the subjects, . . .	£3 3 0	
For the other two subjects, . . .	3 3 0	
For the Second Division, viz., Anatomy, Physiology, and Materia Medica and Therapeutics, ...		6 6 0
or		
For Anatomy and Physiology, . .	£4 4 0	
For Materia Medica and Therapeutics, .	2 2 0	
For the Third Division, viz., Pathology, and Medical Jurisprudence and Public Health, ...		4 4 0
For the Final Division, viz., Surgery and Clinical Surgery, Medicine and Clinical Medicine, and Midwifery, ...		6 6 0
		£23 2 0

Candidates who fail to pass either in the whole or in one or more of the subjects in any of the divisions of the Examination, pay £1, 1s. for each subject in which they have failed before they can be re-admitted to Examination in that subject.

The fees for Matriculation, for Examinations for Degrees, and for Registration as Member of the General Council of the University, are payable at the *Matriculation Office*, *University* (*Old*) *Buildings*. When Candidates cannot attend personally to pay the fees, they should transmit them to T. GILBERT, University, Edinburgh, by *Post Office* or *Postal Orders*, or by *Bank Drafts only*, crossed "*Union Bank of Scotland* (*Hunter Square Branch*), *Edinburgh*," and not by cheques on private accounts. When a fee is paid by a cheque on a Bank, an additional sixpence is required to be added to meet Bank exchange, unless the cheque be payable in Edinburgh or London.

DATES OF EXAMINATIONS AND FOR PRESENTING CERTIFICATES, AND PAYING FEES FOR DEGREES UNDER OLD REGULATIONS,[1] &c.

PROFESSIONAL EXAMINATIONS.

Candidates are required to present their Certificates for Examinations at the Office of the Faculty of Medicine, University (New) Buildings, and to pay the fees at the Matriculation Office.

[1] See footnote, page 67.

Candidates lodging statements of their Courses of Study with the Dean of the Faculty, will observe that for all Courses and Subjects of Study the Faculty will receive Certificates only as evidence of attendance.

First Professional Examination.[1]

Practical Examination in Chemistry—21st July 1894, and, if necessary, subsequent days, at hours to be announced.

Written Examinations—23rd July 1894—Chemistry at 10 o'clock; Botany at 1 o'clock. 24th July 1894—Natural History at 10 o'clock.

Oral Examinations begin 25th July 1894.

Names to be given in, Certificates shown, and Fees paid on or before 13th July 1894.

Second Professional Examination.[1]

Written Examinations—18th July 1894—Anatomy at 10 o'clock; Physiology at 1 o'clock, each day. 19th July 1894—Materia Medica at 10 o'clock; Pathology at 1 o'clock, each day.

Oral Examinations begin on 19th July.

Names to be given in, Certificates shown, and Fees paid on or before 9th July 1894.

Final Professional Examination.[1]

Clinical Examinations in Medicine begin on 1st May, and in Surgery on 3rd May 1894.

Written Examinations—18th June 1894—Practice of Physic, 10 o'clock; Medical Jurisprudence, 1 o'clock. 19th June—Surgery, 10 o'clock; Midwifery, 1 o'clock; Prescriptions at 3.30 o'clock.

Oral Examinations begin 20th June.

Names to be given in, Certificates shown, and Fees paid on or before 17th April 1894.[1]

Theses for M.D. to be given in, Certificates shown, and Fees paid on or before 30th April 1894, and Stamp Duty to be paid on or before 15th July.[1]

Graduation.[1]

Wednesday, 1st August 1894, at 10 A.M. Candidates to assemble at 9 A.M.

Names to be entered for Graduation, and Registration Fees paid on or before 20th July.

FEES FOR DEGREES, &c. (OLD REGULATIONS).

Examination in Botany, Chemistry, Natural History, .	£5 5 0
Examination in Anatomy, Institutes of Medicine, Materia Medica, Prescriptions, Pathology, ...	5 5 0

[1] See footnote, page 67.

In the event of the Candidate failing to pass any one of the Professional Examinations, the Fee is not returned; but he may appear at one subsequent examination without paying an extra Fee, and at any future examination on paying a Fee of £2, 12s. 6d.

SCHOLARSHIPS AND PRIZES OPEN TO COMPETITION IN THE FACULTY OF MEDICINE IN SUMMER 1894.[1]

For further information, and for information regarding other Scholarships, Fellowships, Bursaries, and Prizes, see CALENDAR, where full information regarding the conditions of tenure and the values are given.

The Stark Scholarship in Clinical Medicine, of about £100, is tenable for one year, and is for the encouragement of the study of Clinical Medicine. It is open to competition among all matriculated students of the University who are or have been in attendance at the University Class of Clinical Medicine, and to Bachelors of Medicine of the University of not more than eighteen months' standing who have attended this class. It is open to competition every second year alternately with the competition in Edinburgh for the Murchison Memorial Scholarship. The Examination, oral and in writing, shall include (*a*) Examination of Patients; (*b*) Questions on Therapeutics and Pathology; (*c*) Examination of Specimens. Each holder of the Scholarship shall be required to devote his time in the wards of the Professors of Clinical Medicine to original investigation or other work directly connected with Clinical Medicine; to report his proceedings every three months to the Professors of Clinical Medicine; and, within a reasonable time after the expiry of his tenure of the Scholarship, to present to the Faculty of Medicine a written statement of the results of his investigations or other work. The next Competition will take place in July 1894.

The Murchison Memorial Scholarship, tenable for one year, and consisting of the annual proceeds of about £1000, shall be awarded in alternate years in Edinburgh and London, for proficiency in Clinical Medicine. Candidates are required to be registered medical students in attendance for not less than four nor more than six years at Hospitals and Classes in Edinburgh or London, recognised by the University of Edinburgh or the Royal College of Physicians of London. The competition will take place in London in July 1894, and is open to candidates from London and Edinburgh. The date of Competition will be afterwards announced.

The Wightman Prize, of Ten Guineas, is awarded annually, at the Graduation Ceremonial in Medicine, to the student of the Class of

[1] *N.B.*—The values of the Fellowships, Scholarships, Bursaries, and Prizes are subject to variation consequent on the rise or fall of the rate of interest, &c.

Clinical Medicine who shall write the best Report and Commentary on Cases treated in the University Clinical Wards during the academic year. Essays to be given in before 5th July 1894.

The Anderson Henry Prize is awarded for the best and approved essay on a botanical subject proposed by the Professor of Botany, the Curator of the Royal Botanic Garden, and the President of the Botanical Society of Edinburgh, for competition to students in the Class of Botany in the University of Edinburgh, during any of the three years preceding the date of the award. The next award may be made in August 1894. Competing Essays to be sent to the Dean of the Faculty of Medicine on or before 1st July 1894.

V.

FACULTY OF SCIENCE.

SUMMER 1894.

Dean.

PROFESSOR GEIKIE, D.C.L., LL.D., F.R.S., &c.,

31 *Merchiston Avenue, Edinburgh.*

Faculty of Science.

Students who do not intend to graduate in Science may attend any of the Classes in the Faculty on payment of the Matriculation and Class Fees and without having passed any Preliminary Examination. Attendance in any Class with the view to Graduation in Pure Science will not qualify unless the whole Preliminary Examination has been previously passed. Those who intend to graduate in Engineering or in Agriculture must pass the Preliminary Examination before they present themselves for any part of the First Science Examination, but not necessarily before entering on the Curriculum. The Classes in the Faculty of Science are now open both to men and to women, with the exception of a few Classes in which provision has not yet been made for teaching women in the University. See Regulation regarding the attendance by women on Extra Academical Lectures which qualify for Graduation in this University, page 80. Full information regarding attendance in Classes, Examinations, and Graduation is given in the UNIVERSITY CALENDAR.

Programme of Classes.

SUMMER SESSION, 1894.

The Classes will be opened as follows. They will meet daily (Saturdays excepted), unless otherwise stated; and will be closed on Friday, 20th July.

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees.
Senior Mathematics (First Graduation Half-Course)	1 May, 11 o'cl	Chas. Tweedie, M.A., B.Sc.	£2 2
Senior Mathematics (Second Graduation Half-Course)	1 May, 12 ,,	Chas. Tweedie, M.A., B.Sc.	2 2
Physics (*mainly for Students of Medicine*)	1 May, 12 ,,	Prof. Tait.....	3 3
Physical Laboratory ...	1 May, 10 ,,	Prof. Tait and Assistant.....	2 2
Applied Mathematics (Electricity and Magnetism)	1 May, 10 ,,	C.G. Knott, D.Sc.	2 2

SUMMER SESSION—*continued.*

Classes.	Days of Opening and Hours of Attendance.	Professors.	Class Fees.
Advanced Experimental Physics.....	1 May, 11 o'cl.	W. Peddie, D.Sc.	£2 2
Chemistry (Organic), Advanced Class—(*Tues., Wed., & Thur.*)	1 May, 1 ,,	Prof. Crum Brown.....	2 2
Do. (Practical)...	1 May, 2 ,,		3 3
Anatomical Demonstrations.....	1 May, 11 ,,	Prof. Sir Wm. Turner	2 2
Practical Anatomy.....	1 May, ,,		
Anthropology[1] (*Tues., Wed., & Fri.*)	8 May, 2 ,,		2 2
Practical Physiology, including Histology	1 May, 3 ,,	Prof. Rutherford..	3 3
Do. (Advanced Class)	*In Winter only.*	Prof. Rutherford..	3 3
Geology (*Mon., Wed., Fri.*)..... Field Demonstrations on *Saturdays.*	2 May, 4 o'cl.	Prof. Geikie,.....	3 3
Zoology (Elementary).	1 May, 1 ,,	Prof. Ewart.....	4 4
Do. (Advanced) ...	1 May, 3 ,,		2 2
Practical Zoology (Elementary).....	1 May,[4].....		2 2[2]
Do. (Advanced)	2 May,[4].....		3 3[2]
Botany	1 May, 8 o'cl.	Prof. Bayley Balfour.....	4 4[3]
Practical Botany.....	1 May, 9 ,,		2 2
Field Demonstrations on *Saturdays.*			
Engineering Field Work (Surveying, Levelling, &c.)	20 June 9.30 ,,	Prof. Armstrong...	3 3

[1] When taken with Practical Anatomy, £1, 1s.
[2] Besides charge of 10s. for Laboratory Expenses.
[3] Besides Garden Fee of 5s.
[4] At hours to be arranged.

MATRICULATION FEES.

For the Summer Session only, 1st May to 30th September inclusive £0 10 0

(Candidates entering for Graduation Examinations or for Graduation, if not already matriculated for the whole year, pay £1.)

Faculty of Science.

COURSES OF LECTURES IN SUMMER 1894.

I.—PURE SCIENCE.

I. MATHEMATICS.

For Synopsis of Lectures see under Faculty of Arts.

II. ZOOLOGY, including COMPARATIVE ANATOMY.

PROFESSOR EWART.

For Synopsis of Lectures on Zoology and of Courses on Practical Zoology, see under Faculty of Medicine.

III. BOTANY.

PROFESSOR BAYLEY BALFOUR.

For Synopsis of Lectures on Botany see under Faculty of Medicine.

IV. APPLIED SCIENCE (Electricity and Magnetism).

CARGILL GILSTON KNOTT, D.Sc., *Lecturer.*

For Synopsis of Lectures on Applied Science, see under Faculty of Arts.

ADVANCED EXPERIMENTAL PHYSICS.

W. PEDDIE, D.Sc., *Lecturer.*

For Synopsis of Course see under Faculty of Arts.

V. CHEMISTRY.

For Synopsis of Course in Practical Chemistry see under Faculty of Medicine.

VI. HUMAN ANATOMY, including ANTHROPOLOGY.

PROFESSOR SIR WILLIAM TURNER.

For full Synopsis of Lectures on Anatomy see under Faculty of Medicine.

ANTHROPOLOGY.

In the event of a sufficient number of Students expressing their intention of selecting Human Anatomy, including Anthropology, as a subject for the Degree of Bachelor of Science, the Professor of Anatomy will be prepared to deliver, during the Summer Session, a course of twenty-five Lectures on Physical Anthropology. Fee, £2, 2s. To Students who take the Summer Course of Practical Anatomy, the fee for this Class of Anthropology is £1, 1s.

VII. PHYSIOLOGY.

PROFESSOR RUTHERFORD.

For Synopsis of Course in Practical Physiology see under Faculty of Medicine.

VIII. GEOLOGY, including MINERALOGY.

PROFESSOR JAMES GEIKIE.

The following subjects are dealt with in this Course :—

1. *Petrology.*—(The lectures are illustrated by demonstrations in the Laboratory and the Class Museum.)

2. *Palæontological Geology.*—(A collection of the typical fossils of the different formations occurring in Britain will be found in the Class Museum.)

3. *Structural Geology.*—Under this head *Dynamical Geology* is discussed in more or less detail.

4. *Geological Surveying.*

5. *Economic Geology: application of Geology to Mining, Engineering, Agriculture, Public Health, &c.*

6. *Physiographical Geology.*

Structural and *Field Geology* form the principal portion of this Course, but no previous knowledge of Geology is required on the part of the student—the elementary principles upon which the science is based being set forth both in the

lecture-room and the field. The Class meets on Mondays, Wednesdays, and Fridays at 4 o'clock, and a series of practical lessons on the study of rocks will be given at the commencement of the Session on Tuesdays and Thursdays at the same hour. The Saturdays are devoted to field demonstrations, when the mode of geological mapping and section-drawing is explained and illustrated.

II.—APPLIED SCIENCE.

Graduation in Engineering.

I. ENGINEERING.

PROFESSOR ARMSTRONG.

Engineering Field-Work.

A course of Practical Instruction in Surveying, Levelling, Setting Out, and Calculation of Quantities, is given during the Summer Session.

The course consists of lectures, and of practical work, as undertaken in the field and in the office, and occupies the whole of each day for about three weeks. The number of hours during which instruction is given, is thus made to correspond to an ordinary Course extending over a much longer period.

II.—GRADUATION IN PUBLIC HEALTH.

PUBLIC HEALTH.

PROFESSOR SIR DOUGLAS MACLAGAN.

For Synopsis of Lectures, &c., see Faculty of Medicine.

Regulation regarding the Instruction and Examination of Women in Chemistry, Botany, and Zoology for Graduation in Science.

Any woman who has received the requisite instruction in Chemistry, Botany, and Zoology, in any other University or Institution already approved by the University with the view to the Graduation of men, or under any teacher already recognised with that view, or in the Edinburgh School of Medicine for Women, Surgeon Square, Edinburgh, or in the Medical College for Women, Chambers Street, Edinburgh, will—subject to the provisions of Ordinance[1] No. 18, General No. 9, Regulations for the Graduation of Women, &c.—be admitted to Examination in these subjects for Graduation in Science.

Any woman, not a Matriculated Student of the University, availing herself of the permission to attend the Lecture on Chemistry, Botany, or Natural History, at the above-named Schools of Medicine in Edinburgh, must, at the commencement of each year of such attendance, enrol her name in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by Students of the University, and having, in respect of such payment, a right to the use of the Library of the University.

Full information regarding attendance on Classes, Examinations, and Graduation in Science is given in the University Calendar.

OUTLINE OF SUBJECTS OF FIRST EXAMINATION FOR DEGREES IN SCIENCE FOR SUMMER 1894.

I.—Pure Science.

(*a*2) ZOOLOGY.

(*a*) The General Principles of Biology.

(*b*) The distinctive characters of the Invertebrate groups, and the structure, habits, &c., of Amœba, Paramœcium, Hydra, Arenicola, Hirudo, Anodon, Helix, Nephrops, and Periplaneta.

[1] See Ordinance, Appendix to Calendar, 1892-93, page 51.

(*c*) The distinctive characters of the Chordata groups, and the structure, habits, &c., of Myxine, Raia, Clupea, Rana, Columba, Ornithorhynchus, Macropus, Lepus, Ovis, and Canis.

(*d*) The skeletons of Crocodilus, Equus, Felis catus, Balæna, Vespertilio, and Simia (Orang).

(*e*) A general knowledge of the Orders of Sauropsida and Mammalia.

(*f*) The structure and life-history of Gregarina, Distoma, Tænia, Ascaris, Trichina, and Filaria.

(*g*) The more important facts of the development of Hydra, Amphioxus, Scyllium, Gallus, and Lepus.

(*h*) The principles of the Geographical Distribution of Animals, and the Distribution of the Mammalia.

(*a*2) BOTANY.

The characteristic features of the following groups and classes of the vegetable kingdoms :—

Thallophyta [Schizophyta, Algæ, Fungi]; Muscineæ [Hepaticæ, Musci]; Pteridophyta [Filicineæ, Equisetineæ, Lycopodineæ]; Phanerogamæ [Gymnospermæ, Angiospermæ (Monocotyledones, Dicotyledones)].

The fundamental facts and principles of Morphology (including Anatomy, Histology, and Development) and Physiology. The life-history of the following plants :—Bacterium, Saccharomyces, Mucor, Vaucheria, Eurotium, Funaria, Aspidium, Pinus, Scilla, Helianthus, Ulmus; and the characters of plants belonging to the following natural orders of Phanerogamæ :—Coniferæ, Gramineæ, Orchideæ, Liliaceæ, Urticaceæ, Labiatæ, Compositæ, Umbelliferæ, Rosaceæ, Leguminosæ, Cruciferæ, Ranunculaceæ.

(*c*) CHEMISTRY.

Classification of Elements. General Laws of Chemical Combination and Action, as illustrated in the simpler compounds of the more commonly occurring elements.

Symbolic Notation.

Preparation and Properties of the Non-Metallic Elements and their chief Compounds. Atomic Theory. Combining Volumes of Gases. Relation of Volume of Gas to Temperature and Pressure.

General Properties of Acids, Bases, and Salts—Electrolysis of Salts.

Oxygen, Ozone, Oxidation and Reduction.

Hydrogen, Water, Peroxide of Hydrogen, Chlorine, Hydrochloric Acid, Hypochlorites, Chlorates, Bromine, Hydrobromic Acid, Iodine, Hydriodic Acid, Iodates, Fluorine, Hydrofluoric Acid. Sulphur, Sulphuretted Hydrogen, Oxides of Sulphur, Sulphites, Sulphates, Thiosulphates, Nitrogen, The Atmosphere, Oxides of Nitrogen, Nitrates, Nitrites, Ammonia, Ammonium Salts, Phosphorus, Oxides of Phosphorus, Chlorides and Oxychloride of Phosphorus, Phosphates, Phosphites, Hypophosphites, Boron, Boracic Acid, Borates, Silicon, Silica, Silicates, Chloride of Silicon, Fluoride of Silicon, Hydrofluosilicic Acid.

Carbon, Oxides of Carbon, Carbonates, Phosgene. Classification of Carbon Compounds. Marsh Gas and its Homologues. Chloroform. Methylic and Ethylic Alcohols and Ethers. Methylamine, Dimethylamine, Trimethylamine, Tetramethylammonium. Formic and Acetic Acids, Aldehyde, Acetone, Chloral, Olefiant Gas, Oxalic Acid, Lactic Acid. Tartaric Acid, Citric Acid. Fats and Oils, Saponification, Glycerine. Cellulose, Sugars, Starch. Products of Distillation of Wood and of Coal. Benzene, Benzoic Acid, Salicylic Acid, Oil of Bitter Almonds, Hydrocyanic Acid, Cyanides, Cyanates, Thiocyanates, Urea.

The following metals, their Oxides, Sulphides, and more important Salts :—Potassium, Sodium, Magnesium, Calcium, Strontium, Barium, Aluminium, Zinc, Manganese, Chromium, Iron, Bismuth, Lead, Copper, Mercury, Silver, Tin, Gold, Platinum, Antimony, Arsenic.

Simple Qualitative Analysis. The examination in this is conducted practically. Candidates are required to examine unknown *single salts* for both metallic and salt radicals, as contained in the following lists :—

Silver, Mercurous, Mercuric, Cupric, Lead, Stannous, Stannic, Bismuth, Antimony (*Tartar emetic* may be given), Arsenious, Zinc, Manganous, Ferrous, Ferric, Chromic, Aluminium, Calcium, Barium, Strontium, Magnesium, Ammonium, Sodium, Potassium.

Carbonate, Sulphite, Thiosulphate, Sulphide, Sulphydrate, Hypochlorite (Bleaching solution), Nitrite, Chloride, Bromide, Iodide, Cyanide, Sulphate, Chromate, Orthophosphate, Arseniate, Arsenite, Borate, Oxalate, Nitrate, Chlorate, Acetate.

In the examination, Candidates are supplied with the following reagents, &c. :—Acetic Acid, dilute Hydrochloric Acid, dilute Nitric Acid, Sulphuric Acid, dilute Sulphuric Acid, Alcohol, Iodine, Ammonia, Ammonium Carbonate, Ammonium Chloride, Ammonium Oxalate, Ammonium Sulphide, Barium Nitrate, Bleaching Powder, Calcium Chloride, Calcium Hydrate, Calcium Sulphate, Cobaltous Nitrate, Cupric Sulphate, Ferric Chloride, Ferrous Sulphate, Lead Acetate, Magnesium Sulphate, Mercuric Chloride, Potassium Carbonate, Potassium Chromate, Potassium Ferricyanide, Potassium Ferrocyanide, Potassium Hydrate, Potassium Iodide, Silver Nitrate, Sodium Bitartrate, Sodium Phosphate, Sodium Sulphite, Stannous Chloride, Sulphuretted Hydrogen. *Solids*—Manganese Dioxide, Sodium Carbonate, Borax, Sulphur, Zinc.

Test papers :—Blue Litmus, red Litmus, Plain, Starch, Turmeric, Bunsen Burner, Test Tubes.

II. ENGINEERING.

The Examination in Chemistry is the same as for 1st B.Sc. in Pure Science (p. 81).

III. PUBLIC HEALTH.[1]

Full information regarding the Examinations, &c., in Public Health is given in the Calendar.

[1] See proposed new Regulations, page 93, which may come into force on 1st October 1894.

IV. AGRICULTURE.

The Examinations in Zoology, Botany, and Chemistry are the same as for the First B.Sc. in Pure Science (p. 80).

GEOLOGY AS BEARING ON AGRICULTURE.

(1.) *Physical Geography and Dynamical Geology.*—The nature and operation of Geological agents:—Rain, Underground Water, Rivers, Ice, the Sea, Life, Earthquakes, Volcanoes, Movements of Upheaval and Depression.

(2.) *Mineralogical and Petrological Geology.*—Characters of the principal Rock-forming Minerals: Composition, Origin, and Distribution of the more important and commonly occurring Rocks.

(3.) *Structural Geology.*—The Structure of Rock-masses, more especially Bedding, Joints, Faults, and Denudation.

(4.) *Agricultural Geology.*—Nature and Origin of Soils and Subsoils; Draining in connection with Geological Structure; Mineral substances used as Manures.

GRADUATION IN ENGINEERING.

Regulations applicable to all who commence attendance on Science Classes after 1st October 1893,[1] with the view of Graduating in Science in the Department of Engineering.

I. Ordinance No. 21. [Edinburgh, No. 3.—Regulations for Degrees in Science in Engineering, approved by Her Majesty in Council on 26th June 1893.]

At Edinburgh, the 19th day of December 1892 *years.*

Whereas by the Universities (Scotland) Act, 1889, the Commissioners under the said Act are empowered by section 14, sub-section 5, to regulate the management and ordering of the Universities, and the manner and conditions in and under which students shall be admitted thereto, and in particular the course of study and manner of teaching, the length of the academical session or sessions, the manner of examination, the qualifications, appointment, and number of Examiners, and the amount and manner of their remuneration, the granting of degrees, and the institution of new degrees; the institution of an examination either on entering the University, or as a preliminary condition of entering on the course of study for a degree in any Faculty, or of both such examinations:

Therefore the Commissioners under the said Act statute and ordain with regard to the University of Edinburgh as follows:

I. Two degrees in Science in Engineering may be conferred by the University of Edinburgh—viz., Bachelor of Science in Engineering and Doctor of Science in Engineering.

[1] For Regulations applicable to those who commenced attendance on Classes before 1st October 1893, see Calendar.

II. Every candidate for the degree of Bachelor of Science in Engineering must pass the Preliminary Examination[1] prescribed by Ordinance No. 11 [General No. 6.—Regulations for Degrees in Arts]; and the conditions with respect thereto imposed by the said Ordinance shall be applicable in all respects to this Ordinance except as follows: —(1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, shall exempt from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. (1) Candidates must, in the course of not less than three Academical years within the meaning of the Ordinance hereinbefore first mentioned, attend at least the eleven courses of instruction prescribed under Section VIII. of this Ordinance.

(2) It shall be the duty of the Senatus to determine from time to time which of the said courses shall be full and which shall be half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Edinburgh, and must include the necessary courses in Engineering, except where the University Court, after consultation with the Senatus, sees fit to allow one of the courses in Engineering to be taken outside the University under the provisions of the immediately succeeding subsection.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering: Provided that the fees for attendance at an approved Institution in Edinburgh or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Edinburgh.

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing themselves of the permission to attend lectures at approved institutions or by recognised teachers in Edinburgh to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by the students of the University, a right to the use of the Library of the University.

[1] Detailed information regarding the Preliminary Examination is given in the University Calendar, and in the Regulations for Degrees in Science, published separately.

VI. (1) It shall be the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It shall be the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science to be hereafter constituted in the University, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval: Provided that, until the Faculty of Science shall be duly constituted, the syllabus shall be submitted by the Professors and Lecturers directly to the Senatus.

VII. The provisions of the preceding section shall not apply to approved Institutions or recognised teachers outside Edinburgh; but the University Court shall not grant or continue recognition to any Institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh.

VIII. The subjects of study shall be as follows:—

1. Mathematics, including Analytical Geometry, and Differential and Integral Calculus.
2. Natural Philosophy, including Applied Higher Mathematics.
3. Chemistry.
4. A course in the Physical Laboratory or in the Chemical Laboratory, or of Practical Chemistry.

5, 6. Two Courses in Practical work in Drawing.

7, 8, 9. Three Courses in Engineering, including Engineering Laboratory Practice, and Field Work.

10. Natural Philosophy, involving Higher Mathematics.
11. One of the following:—
    - (*a*) Engineering Laboratory Practice, Mechanical or Electrical (Special Course).
    - (*b*) Electricity—Pure and Applied.
    - (*c*) Geology and Mineralogy.

IX. (1) There shall be a First Science Examination[1] in the three following subjects, viz.:—(1) Mathematics, (2) Natural Philosophy, (3) Chemistry; and the examinations in Natural Philosophy, and in Chemistry shall so far as possible be practical.

The examination in Geometrical Drawing may be taken either at the First or at the Final Science Examination.

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[1] Detailed information regarding the Examinations, &c., are given in the University Calendar, and in the Regulations for Degrees in Science, printed separately.

(2) The examination in Mathematics shall include the higher branches of Mathematics specified under Mathematics in the Section immediately preceding; but it shall be optional to Candidates to pass the same examination in this subject as that required for the ordinary Degree of Master of Arts, provided that in that case they shall be required, before graduation, to pass an examination in the remainder of the subject.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

X. (1) There shall be a Final Science Examination in the remaining subjects specified in Section VIII. hereof; and, if required, in the higher branches of Mathematics as provided in Section IX., Subsection 2 hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination and have attended the required courses in the subjects professed, provided that for this purpose subjects 5, 6, 7, 8, and 9, specified in Section VIII., shall form one subject.

XI. A candidate for the degree of Bachelor of Science in Engineering shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It shall be competent to the Examiners for the degree of Bachelor of Science in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIII. It shall be competent to the University Court of the University of Edinburgh to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable by the development of Engineering Science, or in consequence of further provisions having been made within or without the University for the study of any branch of the said Science: Provided that in no case shall the number of full courses of study required be less than the number required for the degree of Bachelor of Science in Pure Science, as specified in Ordinance No. 12 [General No. 7.—Regulations for Degrees in Science.]

Doctorate of Science in Engineering.

XIV. Graduates of the University of Edinburgh who have held the degree of Bachelor of Science in Engineering for a term of five years, may offer themselves for the degree of Doctor of Science in Engineering in the said University.

XV. A Candidate for the degree of Doctor of Science in Engineering shall present a Thesis or a published memoir or work to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall be bound to pass such an examination as may from time to time be determined. The Thesis shall be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and shall be accompanied by a declaration, signed by him, that these conditions have been satisfied.

GENERAL.

XVI. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Engineering and Doctor of Science in Engineering, as the case may be, on the payment of the fees required.

XVII. A student who, at the time when this Ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in Engineering in the University of Edinburgh, under regulations in force at the time therein, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations, or with the provisions of this Ordinance, may become a Candidate for the degree of Bachelor of Science in Engineering.

XVIII. The degrees of Bachelor and Doctor of Science in Engineering shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum.*

XIX. This Ordinance shall come into force from and after the date on which it is approved by her Majesty in Council.

In witness whereof these presents are sealed with the seal of the Commission.

A. S. KINNEAR,
Chairman.

GRADUATION IN SCIENCE IN THE DEPARTMENT OF AGRICULTURE.

Regulations applicable to all who commence attendance on Science Classes after 1st October 1893,[1] with the view of graduating in Science, in the Department of Agriculture.

ORDINANCE NO. 22. [EDINBURGH, NO. 4 — REGULATIONS FOR DEGREES IN SCIENCE IN AGRICULTURE, APPROVED BY HER MAJESTY IN COUNCIL ON 26TH JUNE 1893.]

At Edinburgh the 19th day of December 1892 years.

WHEREAS by the Universities (Scotland) Act, 1889, the Commissioners under the said Act are empowered by section 14, subsection 5, to

[1] For Regulations applicable to those who commenced attendance on classes before 1st October 1893, see Calendar.

regulate the management and ordering of the Universities, and the manner and conditions in and under which students shall be admitted thereto; and in particular (*b*) the course of study and manner of teaching; the length of the academical session or sessions; the manner of examination; the qualifications, appointment, and number of examiners, and the amount and manner of their remuneration: (*d*) the granting of degrees and the institution of new degrees; (*e*) the institution of an examination, either on entering the University, or as a preliminary condition of entering on the course of study for a degree in any Faculty, or of both such examinations:—

Therefore the Commissioners under the said Act statute and ordain as follows:—

I. A degree of Bachelor of Science in Agriculture may be conferred by the University of Edinburgh.

II. Every candidate for the degree of Bachelor of Science in Agriculture must pass the Preliminary Examination[1] prescribed by Ordinance, No. 11 [General, No. 6—Regulations for Degrees in Arts]; and the conditions with respect thereto imposed by the said Ordinance shall be applicable in all respects to this Ordinance, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, shall exempt from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. (1) Candidates must in the course of not less than three Academical years, within the meaning of the Ordinance hereinbefore first mentioned, attend at least eleven courses of instruction, in subjects prescribed for examination under Section VIII. of this Ordinance.

(2) It shall be the duty of the Senatus to determine from time to time, which of the said courses shall be full courses and which shall be half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

IV. (1) Five full courses or their equivalent (counting two halt courses as one full course) must be taken in the University of Edinburgh, and must include the course in Agriculture and Rural Economy.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science

[1] Detailed information regarding the Preliminary Examination is given in the University Calendar, and in the Regulations for Degrees in Science, printed separately.

in Agriculture : Provided that the fees for attendance at an approved Institution in Edinburgh or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Edinburgh.

(3) Residence and practical work at a farm shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Edinburgh, to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by the students of the University, a right to the use of the Library of the University.

VI. (1) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It shall be the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science to be hereafter constituted in the University, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval : Provided that, until the Faculty of Science shall be duly constituted, the syllabus shall be submitted by the Professors and Lecturers directly to the Senatus.

VII. The provisions of the preceding section shall not apply to approved institutions or recognised teachers outside Edinburgh ; but the University Court shall not grant or continue recognition to any Institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh, where such exist.

VIII. The subjects of study shall be as follows :—

1. Mathematics, or Biology (*i.e.*, Zoology and Botany).
2. Natural Philosophy.
3. Chemistry.
4. Agriculture and Rural Economy.
5. Agricultural Chemistry.
6. Geology.
7. Veterinary Hygiene.
8. Agricultural Entomology.
9. Economic Science as applied to Agriculture.
10. A course in one of the following :—
    (*a*) Forestry.

(*b*) Experimental Physics.
(*c*) Engineering.
11. Engineering Field Work.

IX. (1) There shall be a First Science Examination[1] in the three following subjects—viz., (1) Mathematics, or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects shall be the same as the examination in these subjects for the degree of Bachelor of Science, under the provisions of Ordinance, No. 12 [General, No. 7—Regulations for Degrees in Science].

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

X. (1) There shall be a Final Science Examination in the remaining subjects (4 to 11 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

XI. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XII. A candidate for the degree of Bachelor of Science in Agriculture shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

General.

XIII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Agriculture, on payment of the fees required.

XIV. A student who, at the time when this Ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in Agriculture in the University of Edinburgh, under regulations in force at the time therein, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations, or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science in Agriculture.

[1] Detailed information regarding the Examinations, &c., is given in the University Calendar, and in the Regulations for Degrees in Science, printed separately.

XV. The degree of Bachelor of Science in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum.*

XVI. This Ordinance shall come into force from and after the date on which it is approved by Her Majesty in Council.

In witness whereof these presents are sealed with the seal of the Commission.

A. S. KINNEAR,
Chairman.

FEES PAYABLE FOR SCIENCE DEGREES OR FOR REGISTERING EQUIVALENTS.[1]

I. Under New Regulations.

(1) *Pure Science*—

First Science Examination, (or for each subject, £1, 1s.)	£3 3 0
Second Science Examination,	2 2 0
Doctor of Science Examination,	7 7 0
	£12 12 0

II. Under the Old Regulations.

(1) *Physical and Natural Science and Engineering.*

Preliminary or Registration Examination,	£1 1 0
First Science Examination,	2 2 0
Second Science Examination,	2 2 0
Doctor of Science Examination,	5 5 0
	£10 10 0

(2) *Public Health*—

First Examination for the Degree of Bachelor,	£5 5 0
Second do. do.,	5 5 0
Degree of Doctor,	5 5 0
	£15 15 0

(3) *Agriculture*—

Preliminary Examination,	£1 1 0
First Science Examination,	2 2 0
Second do. do.,	2 2 0
	£5 5 0

[1] When names are not entered nor fees paid on or before the stated dates, a late entry fee of ten shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the Examination until his Name is entered, all the necessary Certificates, &c., lodged, and the Fee paid.

In the event of a Candidate not passing, the fee is not returned, but he may appear at *one* subsequent Examination without paying an extra fee, and at any future Examination on paying one-half of the fee.

Every Candidate for Graduation is required to pay the Fee of £1 for Registration as a Member of the General Council of the University, at least one clear day before the date of Graduation.

All communications relating to the Curriculum and Examinations for degrees in Science, and to Examinations for Science Fellowships and Scholarships, &c., should be addressed to *The Dean of the Faculty of Science*, University, Edinburgh.

TIME-TABLE OF EXAMINATIONS AND DATES FOR PRESENTING CERTIFICATES AND PAYMENT OF FEES IN SUMMER 1894.

First Science Examination.

Practical Chemistry, 21st July 1894, and, if necessary, subsequent days, at hours to be announced.

Chemistry, 23rd July, at 10 A.M.

Botany, 23rd July, at 1 P.M.

Laboratory Work (Public Health), 23rd July, at 10.

Physics (Public Health), 23rd July, at 1.

Practical Work, in the Laboratory begins, 24th July.

Zoology, 24th July, at 10.

Geology (Agriculture), 1.

Oral Examinations begin 25th July.

Names to be given in, Certificates shown, and Fees paid not later than 13th July.

Final Examination.

Medicine (Public Health), 2nd July, at 10.

Sanitary Law and Vital Statistics (Public Health), 2nd July, at 1.

Practical Sanitation and Drawing (Public Health), 2nd July, at 10 and 1.

Oral Examination, 3rd and 4th July.

Names to be given in, Certificates shown, and Fees paid not later than 25th June.

APPENDIX.

COMMISSIONERS' ORDINANCES UNDER THE UNIVERSITIES (SCOTLAND) ACT, 1889, AS LAID BEFORE PARLIAMENT, WHICH MAY COME INTO OPERATION ON 1ST OCTOBER 1893.

I. ORDINANCE NO. 34. [EDINBURGH, NO. 8.—REGULATIONS FOR DEGREES IN MUSIC.]

At Edinburgh, the 27th day of July 1893 *years.*

WHEREAS by the Universities (Scotland) Act, 1889, the Commissioners under the said Act are empowered by section 14, sub-section 5, to regulate the management and ordering of the Universities, and the manner and conditions in and under which students shall be admitted thereto; and in particular (*b*) the course of study and manner of teaching; the length of the academical session or sessions; the manner of examination; the qualifications, appointment, and number of examiners, and the amount and manner of their remuneration; (*d*) the granting of degrees and the institution of new degrees; (*e*) the institution of an examination, either on entering the University, or as a prelimary condition of entering on the course of study for a degree in any Faculty, or of both such examinations.

Therefore the Commissioners under the said Act statute and ordain with reference to the University of Edinburgh as follows:—

I. Two degrees in Music may be conferred by the University of Edinburgh, viz., Bachelor of Music (Mus. Bac.), and Doctor of Music (Mus. Doc.).

II. 1. Every candidate for the degree of Bachelor of Music must pass a preliminary examination in the following subjects:—(1) English, including Geography and British History; (2) Elementary Mathematics or Elementary Physics or Logic; (3) any two of the following languages, viz., Latin, Greek, French, German, and Italian, provided that one at least of the two shall be a modern language.

2. The extent and standard of the preliminary examination shall e determined by the Senatus Academicus.

3. A degree in Arts not being a degree *honoris causâ tantum*, in any

of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court after consultation with the Senatus, shall exempt from the preliminary examination ; and the Senatus shall have power to determine what examinations, other than those for the degree hereinbefore mentioned, shall be accepted either in whole or in part in place of the preliminary examination.

III. Candidates for the degree of Bachelor of Music must attend, in the University of Edinburgh during a whole Winter Session, a course or courses of instruction extending in all to not less than eighty lectures, and including a course on the History of Music.

IV. There shall be a First Professional Examination in Music in the following subjects :—

(1) Singing or performing upon some Musical Instrument.
(2) Reading at Sight.
(3) Elements of Music, including Musical Modes, and Scales, Notation, Measure and *Tempo*.
(4) Harmony in not more than four parts.
(5) Elementary Counterpoint.
(6) Form: Sonata, Rondo, Fugue, and Minor Structures.
(7) Outlines of the History of Music.

The Ear Test shall be applied to every candidate.

V. There shall be, at least one year after the candidate has passed the First Professional Examination, a second Professional Examination in Music and in Literature in the following subjects :—

(1) One of the following languages not already taken in the preliminary examination—

French.
German.
Italian.

(2) Rhetoric and English Literature (including Prose Composition and a knowledge of Metrical Rules).
(3) Harmony in not more than five parts.
(4) Advanced Counterpoint.
(5) Canon in two parts, and Imitation and Fugue in not more than four parts.
(6) Form (Description of Structure and Character of Musical Forms, and Analysis of Musical Works).
(7) Elements of Instrumentation (Compass of the Orchestral Instruments, and of the Organ and Pianoforte).
(8) Critical Knowledge of certain prescribed Scores.
(9) Playing at Sight from easy Vocal and Instrumental Scores, and from Figured Bass.
(10) The History of Music.
(11) Acoustics in so far as connected with the Theory of Music, and Physiology of Vocal Organs.

In addition each candidate shall be required to submit the following exercises composed by himself :—

(*a*) A Solo Song with Pianoforte Accompaniment.

(*b*) A Four-part Vocal Composition.

(*c*) An Instrumental Composition (other than a Dance) for the Pianoforte or Organ, or for any Stringed or Wind Instrument with Pianoforte or Organ Accompaniment.

The extent and standard of the examination in these subjects shall be fixed from time to time by the Senatus Academicus, and the examination shall be partly written and partly oral and practical.

VI. The examiners for both examinations shall be (1) the Professor of Music ; (2) an Examiner in Music appointed by the University Court ; (3) Examiners in the literary subjects numbered (1) and (2) of Section V. hereof, appointed by the University Court.

Degree of Doctor of Music.

VII. Bachelors of Music of the University of Edinburgh of not less than three years' standing, and not less than twenty-five years of age, may offer themselves for the degree of Doctor of Music, under the following regulations :—The degree shall be given in three Departments, and Candidates may present themselves in one or more Departments.

The Departments shall be those of—

(1) Composers.

(2) Executants.

(3) Theorists or Historians.

VIII. (1) Candidates for the degree of Doctor of Music as Composers shall submit a prescribed number of Vocal and Instrumental Compositions in the larger forms (such as Oratorio, Opera, Cantata, Symphony, Sonata, Overture). Each work shall be the original and unaided composition of the candidate, and shall be accompanied by a declaration to that effect signed by the candidate.

(2) Candidates shall also be examined in the following subjects :—

(*a*) The more recondite Contrapuntal Forms—Fugal Writing in more than four parts, &c.

(*b*) Instrumentation, including certain prescribed books on the subject.

(*c*) The works of the great Composers from Palestrina onwards.

IX. (1) Candidates for the degree of Doctor of Music as Executants shall be required to show their special skill in the execution of Solo and *ensemble* works in different styles. The works shall be selected partly by the candidates and partly by the examiners.

(2) The candidates shall be examined in sight-reading, and shall give evidence of their power of playing Orchestral Scores, and shall be required to invent Transitions and to modulate from one Key and Piece to another. They shall further be required to pass an examination on

the History and Literature of their special instrument, and on the method of teaching that instrument.

X. (1) Candidates for the degree of Doctor of Music as Theorists or Historians shall present one or more treatises on Theoretical or Historical subjects, which shall be the result of research and original thought, not mere abstracts or compilations of existing works. They shall be accompanied by a declaration signed by the candidate that they are his own unaided work.

(2) Candidates shall also be required to pass an examination (*a*) in the Theory and (*b*) in the History of Music.

The examination shall be on a higher standard in the subject which the candidate selects as his specialty.

XI. The examiners for the degree of Doctor of Music shall be the same as for the degree of Bachelor of Music.

XII. It shall be competent to the University Court of the University of Edinburgh, after consultation with the Senatus, to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable.

XIII. (1) The degree of Doctor of Music (Mus. Doc.) may be conferred *honoris causâ tantum*.

(2) The honorary degree of Doctor of Music shall not be conferred by the Senatus Academicus on any person unless he has been recommended for the said degree by the Faculty of Music in a reasoned representation, which shall have been submitted in writing to the Senatus Academicus by the said Faculty, and shall have been considered and approved by the Senatus at a special meeting at which not less than two-thirds of the members were present.

XIV. This Ordinance shall come into force at the beginning of the First Academical year after the date on which it is approved by Her Majesty in Council.

In witness whereof these presents are sealed with the seal of the Commission.

A. S. KINNEAR,
Chairman.

II. Ordinance No. 35. [Edinburgh, No. 9.—Regulations for Degrees in Science in Public Health.]

At Edinburgh, the 27th day of July 1893 *years.*

Whereas by the Universities (Scotland) Act, 1889, the Commissioners under the said Act are empowered by section 14, sub-section 5, to regulate the management and ordering of the Universities, and the manner and conditions in and under which students shall be admitted thereto, and in particular the course of study and manner of teaching, the length of the academical session or sessions, the manner of examination, the qualifications, appointment, and number of Examiners, and the

amount and manner of their remuneration, the granting of degrees, and the institution of new degrees ; the institution of an examination either on entering the University, or as a preliminary condition of entering on the course of study for a degree in any Faculty, or of both such examinations.

Therefore the Commissioners under the said Act statute and ordain with regard to the University of Edinburgh as follows :—

I. Two degrees in Science in Public Health may be conferred by the University of Edinburgh, viz., Bachelor of Science in Public Health and Doctor of Science in Public Health.

II. Candidates for the degree of Bachelor of Science in Public Health must be graduates in Medicine of a University of the United Kingdom, or of some other University recognised for the purpose by the University Court of the University of Edinburgh.

III. Candidates must be matriculated for the year in which they appear for examination or graduation.

IV. Candidates for the degree of Bachelor of Science in Public Health before proceeding to the first examination, must produce evidence (1) that, after their graduation in Medicine, they have worked for at least twenty hours per week during a period of not less than eight months, of which at least five consecutive months must be in the Public Health Laboratory of the University of Edinburgh, and the remainder in the foresaid Laboratory, or in a Public Health Laboratory recognised for the purpose by the University Court ; and (2) that they have attended, either before or after graduation in Medicine, such courses of lectures on (*a*) Physics and (*b*) Geology, either in the University of Edinburgh or elsewhere, as would qualify for graduation in Science or Arts in the said University.

V. Candidates for the degree of Bachelor of Science in Public Health shall not be admitted to the second examination for the degree sooner than eighteen months after having taken their degree in Medicine, nor sooner than six months after having passed their first examination for the degree of Bachelor of Science in Public Health, and they must have attended a course of instruction, consisting of fifty lectures at least, on Public Health in the University of Edinburgh, or in any University of the United Kingdom, or any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical School or under such teacher as may be recognised or approved for the purpose by the University Court.

They must also give evidence (1) that for six months thay have practically studied sanitary work under the Medical Officer of Health of a county or burgh or district, containing a population of not less than 25,000 ; (2) that they have had three months' clinical instruction regarding fevers and infectious diseases in a hospital recognised as suitable for the purpose by the University Court ; and (3) that they have had three months' instruction in Mensuration and Drawing under a teacher recognised for the purpose by the University Court.

VI. There shall be a first examination for the degree of Bachelor of Science in Public Health in (1) Laboratory Work, the examination being practical, written, and oral; (2) in Physics; and (3) in Geology, if an examination in Physics or Geology, as the case may be, qualifying for graduation either in Science or Arts has not previously been passed by the candidate.

VII. There shall be a second examination, written, oral, and as far as possible practical, for the degree of Bachelor of Science in Public Health in the following subjects, included in the course of instruction in Public Health—viz. (1) Sanitation, (2) Sanitary Law, (3) Vital Statistics, and (4) Medicine in its bearings on Public Health, and the examinations in these subjects shall be taken at one time.

VIII. The Board of Studies for the Faculty of Science shall from time to time, with the approval of the Senatus, determine and announce the character of the instruction to be given in the Laboratory and shall fix the standard of the examinations.

IX. It shall also be competent for the University Court after consultation with the Senatus to modify from time to time the provisions as to the work and instruction hereinbefore specified as necessary for graduating in Science in Public Health, in case such modification shall be rendered desirable by the development of the Science of Public Health, or by increase of the facilities provided in the said University or elsewhere for the study of any branch of the said Science.

Doctorate of Science in Public Health.

X. Graduates who have held the degree of Bachelor of Science in Public Health from the University of Edinburgh for a term of five years, may offer themselves for the degree of Doctor of Science in Public Health in the said University.

XI. Candidates for the degree of Doctor of Science in Public Health shall present a thesis, or a published memoir or work to be approved by the Senatus, on the recommendation of the Faculty of Science, and shall also be required to pass an examination in Public Health, and in such of its special departments as the Senatus, with the approval of the University Court, by regulations framed from time to time, shall determine.

The theses, or published memoirs or works, shall be records of original research undertaken by the candidates, and shall be accompanied by a declaration, signed by them, that the work has been done and the theses or memoirs composed by themselves.

General.

XII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of

Bachelor of Science in Public Health and Doctor of Science in Public Health, as the case may be, on payment of the fees required.

XIII. Students who, at the time when this Ordinance shall come into operation, shall have completed a part of their course of study with a view to graduation in Science in Public Health in the University of Edinburgh, under regulations in force at the time therein, and shall thereafter complete the course of study and pass the necessary examinations in conformity with such regulations, or with the provisions of this Ordinance, may become candidates for the degree of Bachelor of Science in Public Health.

XIV. The degress of Bachelor and Doctor of Science in Public Health shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum.*

XV. This Ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council.

In witness whereof these presents are sealed with the seal of the Commission.

A. S. KINNEAR,
Chairman.

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